



Central University of  
Technology, Free State

# PROSPECTUS

# 2018



Central University of  
Technology, Free State



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# Central University of Technology, Free State (CUT)

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## Vision 2020

By 2020, Central University of Technology, Free State, shall be an engaged university that focuses on producing quality social and technological innovations in socio-economic developments, primarily in the Central region of South Africa.

## Systemic core values

A primary core value of any university is academic freedom, which is enshrined in the Bill of Rights of the Constitution of the Republic of South Africa. This core value must be buttressed by institutional autonomy, but within an environment where public accountability is seen as a virtue. Principles and behaviours defined in the Charter must accord with these and the institutional core values below.

## Institutional core values

- Customer service
- Integrity
- Diversity
- Innovation
- Excellence

# ENQUIRIES

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### Contact:

**Bloemfontein:** 051 507 3911

**Welkom:** 057 910 3500, and ask to be referred to the relevant Head of Department.

## NATIONAL BENCHMARK TEST (NBT)

All prospective first-year students at CUT must write the National Benchmark Test (NBT) prior to registration. The results of the NBT guide the selection teams when placing applicants in appropriate academic programmes and/or recommending appropriate support programmes. (More information on NBT in the General Information section).

## PLEASE NOTE: INDEMNIFICATION

The information in this publication is subject to change. CUT accepts no accountability of whatever nature for any damage, now or in the future, sustained as a result of such change. The rules, regulations, policies and procedures, as amended from time to time and effective on the date of registration as a student at CUT, are applicable.

Please note that variations may occur due to resolutions passed by Senate over the course of 2017/2018.

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# General Information

## 1. Registration

Students register for a three-year national diploma, after which – pending approval by the Head of Department – they qualify to enrol for a fourth year of study to obtain the Baccalaureus Technologiae and/or Bachelor's degree in those programmes in which such degrees are offered. An exit opportunity at certificate level is available in certain programmes. Education students register for a four-year degree, after which – pending approval by the Head of Department – they qualify for the BEd Hons degree.

## 2. Research

Applied research is accorded high priority at CUT. Structures have therefore been created to carry out this important task with excellence. Although an urgent need exists for practically oriented contractual and developmental research, there are also ample opportunities for staff and students to conduct research with a view to improve their qualifications.

A Graduate School has also been established with the primary aim of overseeing the development of research at postgraduate level.

## 3. CUT Scale of Notation

### Introduction

In light of the new National Senior Certificate (NSC) that was introduced in 2008, two sets of criteria are used for admission to CUT. Candidates who obtained the Senior Certificate in 2007 or before will still be evaluated and selected for admission on the basis of the old scoring scale, while candidates who obtained the NSC in 2008 and thereafter will be evaluated on the basis of the new scoring scale. Both these scales are discussed in more detail in the paragraphs that follow.

- 3.1 General admission regulations for candidates who matriculated in 2007 or before
  - 3.1.1 A candidate for a university of technology degree, diploma or certificate must be in possession of at least a Grade 12 Certificate or equivalent qualification approved by Senate.
  - 3.1.2 A candidate for a CUT degree, excluding the Baccalaureus Technologiae degree and higher qualifications, must be in possession of a Matriculation Exemption Certificate or Conditional Exemption Certificate.
  - 3.1.3 Prospective/aspirant students already in possession of a Grade 12 Certificate or equivalent may apply for admission to a degree, diploma or certificate. In this case, the application is assessed using the assessment criteria published on the applicant's Grade 12 Certificate or equivalent results.
  - 3.1.4 In the cases specified in section 4.1.5.3.3, the general minimum score qualifying the candidate for acceptance as a student is as published for that year. The admission criteria applicable to each programme of study are as specified in the CUT Calendar.
  - 3.1.5 Only a person holding a Grade 12 Certificate or equivalent may be admitted as a student for a post-secondary qualification. However, CUT may exempt a person from this criterion on the basis of the outcome of an individual recognition of prior learning (RPL) assessment. Applications for such an RPL assessment may be submitted to the Assessment and Graduation Unit.

- 3.1.6 If a candidate meets the minimum subject requirements for a degree, diploma or certificate, but scores fewer than the minimum points on the CUT scoring scale for the July Grade 12 examination or a subsequent examination, CUT will consider the following aspects:
- 3.1.6.1 There must be a place available for the candidate in the particular learning programme.
  - 3.1.6.2 The candidate may be subject to selection in the case of a learning programme where this is a requirement (see the chapter pertaining to the relevant faculty in the CUT Calendar).
- 3.1.7 If an applicant fails to qualify for admission to CUT in terms of these regulations, he/she may be subject to the testing of potential in terms of section 4.1.5.3.6 above.
- 3.1.8 Candidates must meet the necessary subject requirements for the various learning programmes.
- 3.1.7.2 The following measuring instruments are used to test potential:
    - 3.1.7.2.1 Assessment of prior experience of mature learners.
    - 3.1.7.2.2 Results achieved in the General Scholastic Aptitude Test (GSAT), which determines the potential of a candidate, as well as the English Proficiency Test, which measures a candidate's understanding of and proficiency in English.
    - 3.1.7.2.3 Grade 12 results.
    - 3.1.7.2.4 Any other measuring instrument as determined by Senate or Council.
  - 3.1.7.3 The results of the above-mentioned measuring instruments are used in accordance with the following guidelines:
    - 3.1.7.3.1 The results are arranged in sequence of achievement.
    - 3.1.7.3.2 The best candidates are accepted in accordance with the needs and vacancies in the specific learning programme.
    - 3.1.7.3.3 A candidate who is not selected may be reconsidered at a subsequent selection opportunity, where the same procedures as those described above will be followed.
    - 3.1.7.3.4 The candidate must deliver proof that he/she is able to express himself/herself in English, both verbally and in writing, so that he/she can benefit fully from the learning programme of his/her choice, provided that some departments set higher requirements with regard to language proficiency. A candidate will be offered a place in a postgraduate programme on condition that he/she possesses a minimum level of proficiency in English.
    - 3.1.7.3.5 For candidates who matriculated in 2007 or before, CUT awards academic weights for achievement according to the following scoring scale:

Symbol obtained in subject in Grade 12	Grade of subject in Grade 12	
	Higher Grade (HG)	Standard Grade (SG)
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2

- 3.2 General admission regulations for candidates who completed the National Senior Certificate (NSC) in 2008 and thereafter
- 3.2.1 A candidate for a university of technology degree, diploma or certificate must be in possession of at least the NSC or equivalent qualification approved by Senate.
- 3.2.2 A candidate must score at least 27 or more points on the CUT scoring scale, for admission to CUT. (See the CUT scoring scale in section 4.1.5.4.6.4 below for the appropriate weights according to which the above-mentioned totals are calculated.) However, admission to a particular programme is subject to the requirements of that programme (see section 4.1.5.8 below for the regulations pertaining to learning programmes).
- 3.2.3 Life Orientation forms part of the final score, with a maximum value of one.
- 3.2.4 A candidate is expected to possess a minimum level of proficiency in English, since this is the language of learning and teaching (LoLT) at CUT. A mark of 50% for English as Home Language (vernacular) or First Additional Language is therefore considered to be sufficient, although any proof of proficiency in the English language will also be taken into consideration.
- 3.2.5 If a candidate meets the minimum subject requirements for the certificate, diploma or degree, but scores fewer than the minimum points on the CUT scoring scale for the NSC examination, CUT will consider the following aspects:
- 3.2.5.1 There must be a place available for the candidate in the particular learning programme.
- 3.2.5.2 The candidate may be subject to selection in the case of learning programmes where this is a requirement (see below for the specific requirements of each programme).
- 3.2.6 If an applicant fails to qualify for admission to CUT in terms of these regulations, he/she may be subject to the testing of potential, refer to CUT calendar for more information.
- 3.2.7 Regulations pertaining to the testing of potential
- 3.2.7.1 The candidate must meet the necessary subject requirements for the learning programme in question.
- 3.2.7.2 The following measuring instruments are used to test the potential of a candidate:
- RPL, with admission to be approved before a candidate may register;
  - Assessment of the prior experience of mature learners;
  - GSAT and English Proficiency Test results;
  - NSC results; and
  - Any other measuring instrument as determined by the Senate or Council.
- 3.2.7.3 The results of the above-mentioned measuring instruments are used in accordance with the following guidelines:
- The results are arranged in sequence of achievement.
  - The best candidates are accepted in accordance with the need and vacancies in the specific learning programme.
  - A candidate who is not selected may be reconsidered at a subsequent selection opportunity, where the same procedures as those described above will be followed.

- The candidate must deliver proof that he/she is able to express himself/herself well in English, both verbally and in writing, so that he/she can benefit fully from the learning programme of his/her choice. Some departments, however, set higher requirements with regard to language proficiency. A candidate will be offered a place in a postgraduate programme on condition that he/she possesses a minimum level of proficiency in English.

3.2.8 For candidates who completed the NSC in 2008 and thereafter, CUT awards academic weights for achievement according to the following scoring scale:

Percentage achieved in NSC subject	30 - 39%	40 - 49%	50 - 59%	60 - 69%	70 - 79%	80 - 89%	90 - 100%
Points rating for % value	2	3	4	5	6	7	8

Please note: A candidate scoring 21 points or less on CUT's scoring scale will not be admitted. A candidate scoring 22 – 26 points on CUT's scoring scale must undergo a selection test. A candidate must obtain an achievement level of at least 4 (50 – 59%) in Life Orientation in the NSC. Even if a higher mark is achieved in Life Orientation, the value will still only be awarded as 1 on the CUT scoring scale.

A candidate who scores fewer than 22 points on the CUT scoring scale in the July or subsequent NSC examination is considered to be a candidate who does not possess the necessary skills to successfully pursue a course of study at CUT under the prevailing circumstances. Such a candidate will not be admitted to CUT.

3.2.9 A candidate is expected to possess a minimum level of proficiency in English, as this is the LoLT at CUT. A mark of 50% for English as Home Language (vernacular) or First Additional Language is therefore considered to be sufficient, although any sufficient proof of proficiency in the English language will also be taken into consideration. In this regard, see section 4.1.5.4.6.3.4 above and the general language policy of CUT.

3.2.10 A candidate may be expected to attend an interview, undergo a selection test, and/or make a written presentation to the relevant Head of Department. Candidates who have not recently been engaged in study and who apply for admission to postgraduate studies are normally invited for such an interview or are requested to undergo a selection test and/or make a written presentation. No offer of admission to CUT will be made during such an interview or selection opportunity. Any offer of admission to CUT will be in writing, and will be mailed to the candidate.

3.2.11 Applications of foreign candidates are considered in accordance with the same regulations as those applicable to other candidates, provided that the foreign qualifications of such candidates are considered equivalent by the South African Qualifications Authority (SAQA). Foreign candidates must complete and submit an application form for international students, and must also meet any and all requirements that may be set for higher education studies in South Africa.

## 4. CUT Admission Requirements for Further Education and Training (FET) Students

The admission requirements for NC(V) Level 4 and traditional N qualifications (N3, N4, N5 and N6) create articulation and clear pathways for FET college students seeking to enrol in career-focused university programmes in the field

of study for which they hold an FET qualification, particularly in scarce skills areas such as Engineering, Information and Communication Technology (ICT), Business/Finance and Education.

As documented in this prospectus, our programmes are underpinned by our vision and will enable prospective students to meet national, business and industry needs.

## Section 1: Admission Criteria for FET College NC(V) 4 Students to Undergraduate Programmes at CUT

Minimum statutory requirements for NC(V) 4 Level students

- Candidates must meet the minimum statutory requirements for students in possession of an NC(V) 4 qualification, as set out in Government Gazette no. 32743 of 26 November 2006, to be eligible for admission to a higher certificate, diploma and bachelor's degree (See Table 1).
- Candidates must note that, according to Section 37 (i) of the Higher Education Act (Act 101 of 1997), the decision to admit a student to higher education study is the right and responsibility of the higher education institution concerned. This implies that individual institutions may set additional admission requirements for specific programmes.

**Table 1:** Minimum statutory admission requirements

Qualification	Minimum entry requirement
Higher certificate	<ul style="list-style-type: none"> <li>■ All statutory requirements for NC(V) 4 should be met;</li> <li>■ 40% in English;</li> <li>■ 30% in either Mathematics or Mathematical Literacy;</li> <li>■ 40% in Life Orientation; and</li> <li>■ 50% in the other four vocational subjects.</li> </ul>
Diploma	<ul style="list-style-type: none"> <li>■ All statutory requirements for NC(V) 4 should be met;</li> <li>■ 50% in three fundamental subjects, one of which must be English; and</li> <li>■ 60% in three compulsory vocational modules.</li> </ul>
Bachelor's degree	<ul style="list-style-type: none"> <li>■ All statutory requirements for NC(V) 4 should be met;</li> <li>■ 60% in three fundamental subjects, one of which must be English; and</li> <li>■ 70% in three compulsory vocational modules.</li> </ul>

### Institutional requirements for NC(V) 4 level students

- NC(V) 4 candidates must score the minimum admission points on the scoring scale for admission, as prescribed in the CUT admissions policy (See Table 2). Since NC(V) programmes are highly specialised, such applicants will only be considered for admission into programmes of similar specialisation, for example NC(V): Tourism applicants will be considered for the Diploma: Tourism Management only, and no other specialisation, regardless of their performance in the NC(V) examinations. Admission to a particular programme is subject to the requirements of that programme (See Table 3 below).
- NC(V) 4 applicants are eligible for university admission only if they have obtained a full qualification. No applicant will be admitted based on the completion of certain subjects in a qualification.
- Life Orientation forms part of the final score, with a maximum value of one.

- NC(V) candidates are expected to possess a minimum level of proficiency in English, since this is the language of learning and teaching (LoLT) at CUT. A minimum mark of 50% for English as Home Language (vernacular) or First Additional Language is therefore considered to be sufficient, although any proof of proficiency in the English language will also be taken into consideration.

The scoring scale for NC (V) 4 subjects is indicated in Table 2.

**Table 2:** Scoring scale for NC (V) 4

Percentage achieved in NCV subject	30-39%	40-49%	50-59%	60-69%	70-79%	80-89%	90-100%
Points rating for % value	2	3	4	5	6	7	8
The programme-specific requirements are indicated in Table 3.							

**Table 3:** Programme-specific requirements

NC(V) 4 PROGRAMMES	CUT QUALIFICATIONS	SUBJECT REQUIREMENTS
<b>Civil Engineering and Building Construction</b>		
Construction Planning	National Diploma: Civil Engineering	In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required for applicants seeking to pursue their studies in Civil Engineering. Every applicant must write an access assessment test.
Construction Supervision		
Materials		
Carpentry and Roof Work		
Concrete Structures		
Masonry		
Physical Science		
Plumbing	National Diploma: Building	In addition to the general admission requirements, a minimum mark of 50% in Mathematics or 70% in Mathematical Literacy is required for applicants seeking to pursue their studies in Building. Physical Science is recommended. Every applicant must write an access assessment test.
Roads		
Drawing Office Practice		
Architectural Graphics and Technology		
Civil and Structural Steel work		
Mechanical Draughting and Technology		
Drawing Office Procedures and Techniques		
<b>Education and Development</b>		
Art and Science of Teaching	Diploma: Design and Studio Art	In addition to the general entry requirements, the following subjects are highly recommended: Painting, Ceramics, Drawing, Graphic Design, Graphic Processes, Jewellery Design, Jewellery Manufacturing, Entrepreneurship and Business Management (only N4), History of Art (N5 and N6).
Human and Social Development		
Learning Psychology		

Electrical Infrastructure Construction		
Electrical Principles and Practice	National Diploma: Electrical Engineering	In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required. Every applicant must write an access assessment test.
Electronic Control and Digital Electronics		
Electrical Workmanship		
Electrical Systems and Construction		
Physical Science		
Engineering and Related Design		
Applied Engineering Technology	National Diploma: Mechanical Engineering	In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required. Every applicant must write an access assessment test.
Engineering Processes		
Professional Engineering Practice		
Automotive Repair and Maintenance		
Engineering Fabrication – Boiler Making		
Engineering Fabrication – Sheet-Metal Worker		
Fitting and Turning		
Physical Science		
Refrigeration and Air Conditioning Processes		
Welding		
Finance, Economics and Accounting		
Applied Accounting	National Higher Certificate: Accounting	In addition to the general entry requirements, a minimum mark of 50% in Accounting is required.
Economic Environment		
Financial Management		
New Venture Creation		
Hospitality		
Client Services and Human Relations	National Diploma: Hospitality Management	In addition to the general entry requirements, every applicant must write an assessment test and undergo an interview. Consumer Science, Hospitality Studies, Accounting or Business Studies is highly recommended.
Food Preparation		
Hospitality Generics		
Hospitality Services		
Information Technology and Computer Science		
Computer Programming	National Diploma: Information Technology	In addition to the general admission requirements, a minimum mark of 60% in Mathematical Literacy or 40% in either Mathematics or Information Technology is required. Every applicant must write an access assessment test.
Data Communication and Networking		
Systems Analysis and Design		
Multimedia Service (Implementation date: 2013)		
Management		
Financial Management		In addition to the general admission requirements, a minimum mark of 50% in Accounting is required.
Management Practice		
Operations Management	National Diploma: Public Management	A candidate must score at least 27 or more points on the CUT scoring scale.
Project Management	National Diploma in Human Resources Management	

Marketing		
Advertising and Promotions	Diploma: Marketing	A candidate must score at least 27 or more points on the CUT scoring scale and 50% for English/Communication
Marketing		
Marketing Communication		
Consumer Behaviour		
Contact Centre Operations		

Mechatronics		
Computer-integrated Manufacturing	Not applicable.	
Electrotechnology		
Stored Programme Systems		
Mechatronic Systems		

Office Administration		
Business Practice	National Diploma: Office Management and Technology	A candidate must score at least 27 or more points on the CUT scoring scale.
Office Data Processing		
Office Practice		
Personal Assistance		

Primary Agriculture		
Animal Production	National Diploma: Agricultural Management	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 one of the Agricultural-related subject, is required, i.e.: Agricultural Sciences and/or Biology or Life Sciences, Mathematics, Mathematical Literacy, Life Orientation, Economics, Accounting or Physical Science. A candidate scoring 21 points or less on CUT's scoring scale will not be admitted. A candidate scoring 22 – 26 points on CUT's scoring scale must undergo a selection test.
Advanced Plant Production		
Farm Planning and Mechanisation		
Agri-business		

Process Instrumentation		
Electronics Control and Digital Electronics	National Diploma: Electrical Engineering	In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required for candidates wishing to pursue their studies in Electrical Engineering. Every applicant must write an access assessment test.
Engineering Processes		
Physical Science		
Instrumentation Technology		

Somatology		
SETA-accredited occupational programmes	National Diploma: Somatology	In addition to the general admission requirements, a minimum mark of 50% in either Life or Physical Science is required. A candidate must score at least 23 or more points on the CUT scoring scale.
FET Certificate: Beauty and Nail Technology		

Tourism		
Client Services and Human Relations	Diploma: Tourism Management	A candidate must score at least 28 or more points on the CUT scoring scale. Every applicant must write a scholastic aptitude test and undergo an interview. Due to the relatively high demand for places in this programme, a candidate who scores less than 24 points on the CUT scoring scale will not be considered for selection.
Science of Tourism		
Sustainable Tourism in South Africa and International Travel		
Tourism Operations		
Transport and Logistics		
Freight Logistics	Not applicable.	
Transport Economics		
Transport Operations		
Project Management		
New Venture Creation		

## Section 2: Admission Requirements for Students with N3, N4, N5 and N6 Qualifications

The following admission requirements apply:

- A candidate with an FET N3, N4, N5 or N6 certificate may qualify for admission to the first year of a diploma qualification, based on his or her seven best subjects for N4/N5 or N5/N6 and a minimum of 50% for English at N3 level. However, a candidate must meet the minimum admission requirements, including the language requirement, on the CUT scoring scale before he/she will be allowed to write an access assessment test (see Table 4 for the CUT scoring scale for N qualifications).
- A candidate with an N3, N4, N5 or N6 certificate does not qualify for any subject recognition.
- Subject recognition may be granted to FET students who have successfully completed their FET N6 diplomas. Such subject recognition will only be considered for first-year CUT certificate and/or diploma subjects, and will only be based on FET N6 level diploma subjects completed successfully. These subjects must be passed at N4, N5 and N6 level with a score of 50% or above.
- Programme prerequisites must be met before a candidate will be admitted to a specific programme.
- An official statement of results must be presented to CUT.

The scoring scale for candidates in possession of N3, N4, N5 and N6 qualifications is indicated in Table 4.

**Table 4:** CUT scoring scale for N qualifications

Symbol achieved	N3	N4/N5/N6
A	6	8
B	5	7
C	4	6
D	3	5
E	2	4

### 5. Extended Curriculum Programmes (ECPs)

Extended curriculum programmes (ECPs) were designed to equip students who do not meet the minimum requirements with the necessary competencies to be successful in their studies. Academic support and skills development are integrated with regular academic work.

The key role of extended provision is therefore to support educationally disadvantaged students who are underprepared despite meeting minimum admission criteria, by enabling them to be placed in an extended curriculum programme that will provide them with the academic foundation to successfully complete their studies.

A student must pass all instructional offerings of the first year of the ECP in order to continue with the subsequent year of study in the ECP. A student enrolled in the ECP may not change to the regular programme even after successfully completing the first year of the ECP. The student must complete the ECP in full.

### 6. Compulsory Academic Literacy and Personal Competencies Module

It has become increasingly evident that a large number of students, irrespective of their level of achievement in high school, are generally not sufficiently equipped in academic English language proficiency and personal competencies

(life skills) to successfully pursue studies in higher education. Even students with high academic potential often struggle to progress in their studies due to a general low level of academic English proficiency.

For this reason, CUT decided to introduce compulsory fundamental modules to improve the entry-level proficiency of all first-year students. These modules include academic English learning experiences in language proficiency, academic literacy and personal competencies/life skills.

At the beginning of the academic year, all first-year students will be tested for English language proficiency. Any student who fails this test will be expected to complete the Academic Literacy and Communication Studies Module (course) in English. The module is credit-bearing and will be assessed through summative and formative assessment methods. The work completed in this module is intended to equip students with the necessary language proficiency and academic literacy skills required to successfully complete higher education studies.

## **Personal Information Management (PIM 5011 & PIM 5012)**

Information Literacy known as Personal Information Management (PIM 5011) was accepted and approved by Senate to be offered at the Library and Information Services (LIS) as a student support programme across all the Faculties to both undergraduate and postgraduate students. It was approved on 20 May 2013. Personal Information Management (PIM 5011) is a subject that the Library & Information Services (LIS) offers to all First-Time-Entering students. This subject became compulsory as from 2014 to all first-time-entering students.

## **Academic literacy**

All first-year students registering for the first time at CUT must write the Academic Language Proficiency (ALP) test, unless they have successfully completed a language proficiency module in English at another institution of higher learning. Evidence of credits earned in such cases must be provided. The compulsory ALP test assesses the student's readiness to handle the reading and writing demands of university education, as well as the ability to apply his/her linguistic competence deriving from knowledge and experience gained at school level.

## **Supplemental Instruction**

Supplemental Instruction (SI) is an academic assistance programme that aims to enhance student performance and retention. SI does not identify high-risk students, but rather identifies high-risk subjects.

SI sessions commence during the first week of the term. During the first class session, the SI leader explains what SI is all about and compiles a schedule for SI sessions that is convenient for most of the students. SI sessions are open to all students. Students who obtain 50% and below in any specific subject are especially encouraged to attend the SI sessions. Since SI is introduced on the first day that classes commence, and due to the fact that it is open for all students to attend, it is not viewed as remedial education. SI leaders are the key people in the supporting process and role models for students in a specific subject. They partake in an intensive training programme, which covers topics such as how students learn, instructional strategies aimed at strengthening student performance, data collection and management details.

SI sessions integrate "how-to-learn" with "what-to-learn". Students who attend SI sessions discover appropriate application of study strategies and have the opportunity to become actively involved in the course material, as the SI leader uses the text and lecture notes as the vehicle for learning skill instruction.

## 7. National Benchmark Test (NBT)

### What are the national benchmark tests?

The National Benchmark Tests (NBTs) are assessments for first-year applicants into higher education institutions. The NBTs were designed to measure a writer's ability to transfer understanding of Academic Literacy, Quantitative Literacy and Mathematics to the demands of tertiary coursework. The National Benchmark Tests comprise three multiple choice tests, written as a combined Academic Literacy and Quantitative Literacy (AQL) test, and a separate Mathematics test. The AQL is a three-hour test that consists of an Academic Literacy (AL) section and a Quantitative Literacy (QL) section. The results of the two sections of the test are recorded separately. The second test is Mathematics (MAT), which is also multiple-choice and three hours in duration.

The Academic Literacy (AL) test targets a writer's capacity to engage successfully with the demands of academic study in the medium of instruction of the test.

The Quantitative Literacy (QL) test targets a writer's ability to manage situations or solve problems in a real context that is relevant to higher education study, using basic quantitative information that may be presented verbally, graphically, or in tabular or symbolic form.

The Cognitive Academic Mathematics Proficiency Test (CAMP) is a three-hour test that targets a writer's ability related to mathematical concepts formally regarded as part of the secondary school curriculum (Mathematics Papers 1 and 2) relevant for Higher Education studies.

### How does CUT use NBT results?

Although the NBTs address content typically taught in secondary school, they provide different and complementary information to the "school-leaving" examinations. CUT uses the NBT results in addition to school academic performance and examination results for placement in development courses, extended programmes, or for identifying other additional academic support.

### National Benchmark Test (NBT) requirements at CUT

It should be noted that all new first-year students at CUT should have written the National Benchmark Test (NBT) before registration. All faculties' applicants should have written the Academic and Quantitative Literacy Test. Applicants to the Faculty of Health and Environmental Sciences, the Faculty of Engineering and Information Technology and some departments of the Faculty of Humanities should also have written the Mathematics test. Costs for these tests are for the prospective students' account. Prospective students are advised to obtain information about the centres closest to their homes, as well as the dates on which these tests will be conducted. CUT will also serve as one of the centres.

### About the institutional proficiency test (NBT)

Applicants should register for a test date at least a month prior to the scheduled test. Seats are limited at venues. If one does not register and pay for the test(s) in advance, one may not be allowed to write on the test date. An applicant who writes Academic and Quantitative Literacy (AQL) pays R80.00, while an applicant who writes both Academic and Quantitative Literacy (AQL) and Mathematics (MAT) pays R160.00. The applicant only needs to write

the test once, even if they are applying to more than one university. All universities to which one apply will be able to access the applicant's test results. CUT applicants are advised to write the test between June and September.

## Learners with disabilities - NBT

NBTP makes provision for writers with disabilities, which are facilitated by the Unit for Students with Special Needs. Writers who require to be accommodated during an examination on account of a disability can contact the NBT call centre (021-6503523) to request a form that has to be submitted three weeks prior to the selected test date. We have successfully accommodated writers who are:

- blind (e.g. using the jaws computer programme and/or braille);
- visually impaired (e.g. large print);
- hearing impaired;
- mobility/physically impaired;
- have any specific learning disability (i.e. dyslexia, extra time, need a scribe); or
- have any chronic illness that require special accommodation.

Candidates with a specific learning disability with impairment in reading and who qualify for a reader for the National Benchmark Tests, should note that the universities to which they apply may not provide such accommodating measures. It is in the interest of candidates to enquire in advance what each university's policy is regarding the provision of readers.

## What are the tests about?

For more details on the test(s), call +27 (0)21 650 3523 or visit [www.nbt.ac.za](http://www.nbt.ac.za)

*Please note that all venues and test dates are subject to change.*

## 2017 INTAKE CYCLE TEST DATES

Find the venues and dates on our website: [www.cut.ac.za/nbt/](http://www.cut.ac.za/nbt/)

## How to register for NBTs

You may register online or by telephone.

1. Register online at [www.nbt.ac.za](http://www.nbt.ac.za). After reading the general information and the FAQs, select the "Register to Write" tab and follow all instructions. Note that you will need your SA identity document or passport in order to register.
2. If you encounter problems during the registration process, call 021-650-3523 or send an e-mail to [nbt@uct.ac.za](mailto:nbt@uct.ac.za) for assistance. The NBT project is staffed from 08:00 to 18:00 weekdays and from 07:30 to 11:30 on national test days.

3. If you do not have access to the internet, call 021 650-3523 to register. The NBT project is staffed from 08:00 to 18:00 weekdays and from 07:30 to 11:30 on national test days. The tests begin at 08:00 at many venues throughout South Africa. The Academic and Quantitative Literacy test is written in the morning session, while the Mathematics (CAMP) test is written in the afternoon. If both tests are written, you will probably complete them at approximately 16:00. They should also be written during the same sitting. Testing dates and venues are available on the NBT website at [www.nbt.ac.za](http://www.nbt.ac.za). Alternatively, please call the number indicated below.

## What should you take to the tests?

- Your identity document or passport;
- Lunch (not all centres are close to shops);
- An HB pencil and eraser; and
- Bus/train/taxi fare for returning home.

Please note that you will not be allowed to use calculators in any of the tests.

## How do you get your test results?

Approximately two weeks after you have written the tests, you may access your results on the NBT website. Log on using your unique NBT reference number or your South African ID Number.

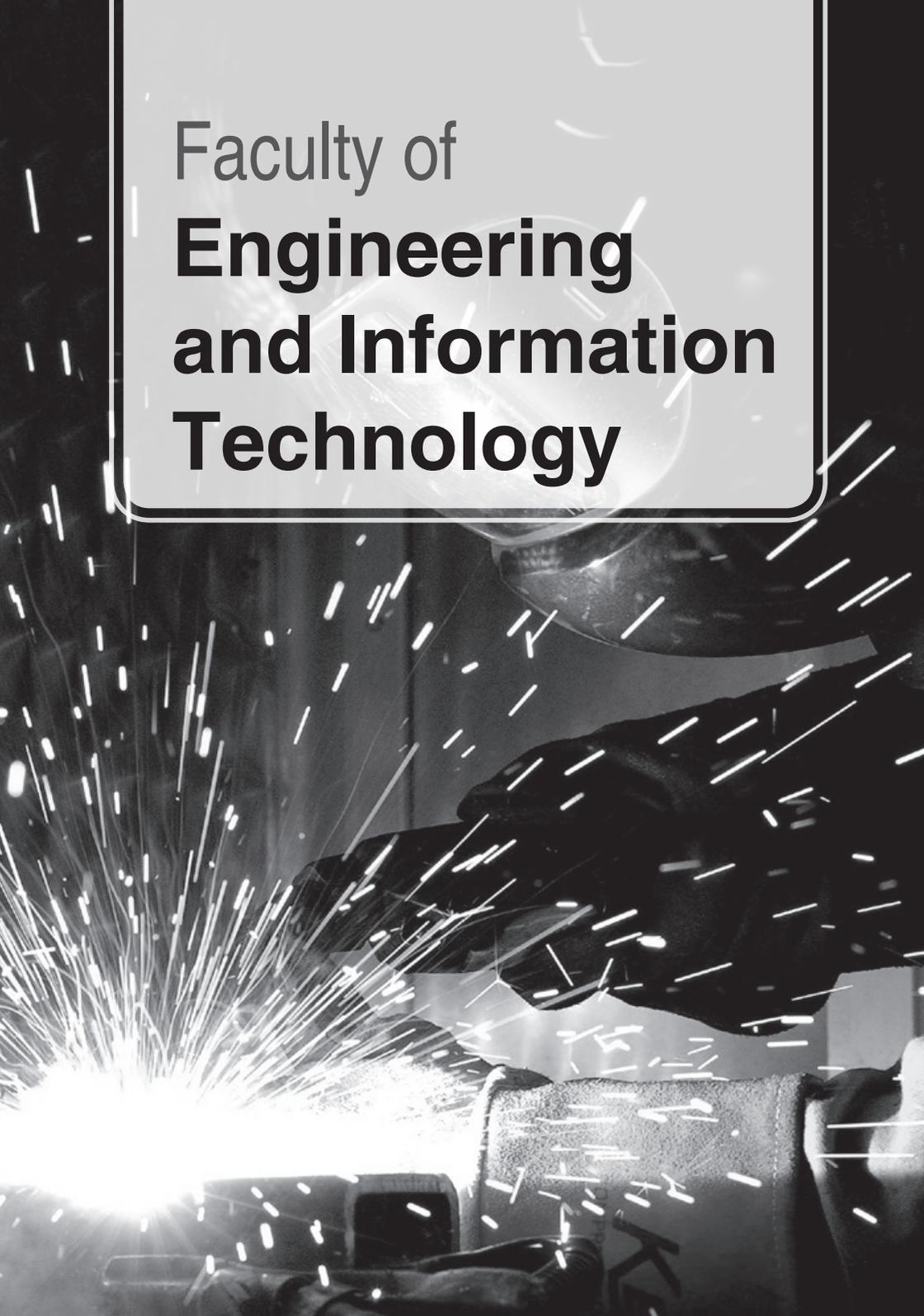
### **NBT contact information:**

Tel.: (021) 650 3523 | E-mail: [nbt@uct.ac.za](mailto:nbt@uct.ac.za) | Website: [www.nbt.ac.za](http://www.nbt.ac.za)

Applicants must have written the applicable National Benchmark Tests (NBTs) by no later than 31 December 2016.

Questions may be directed to the Office of the Deputy Registrar, Ms N Dlamini, at [ndlamini@cut.ac.za](mailto:ndlamini@cut.ac.za), or Ms L Masupe at [pmasupe@cut.ac.za](mailto:pmasupe@cut.ac.za).

**Please note:** All information above is subject to CUT's admission policy and procedure. This document is for information purposes only.



Faculty of  
**Engineering  
and Information  
Technology**

### General

**T**he Faculty of Engineering and Information Technology is comprised of six departments, namely the Department of Built Environment; Department of Civil Engineering; Department of Electrical, Electronic and Computer Engineering; Department of Mechanical and Mechatronic Engineering; Department of Mathematical and Physical Sciences; and Department of Information Technology.

The programmes offered in the departments of the faculty are designed to equip diplomates and graduates with the necessary skills and expertise to be leaders in their chosen professions. The key to the faculty's success lies in the high premium it places on innovation, along with the work that is done by different role players and stakeholders to promote the faculty's and CUT's achievements in the fields of Science, Engineering and Technology. This is achieved through a benchmarking system, which ensures that training and research programmes always meet the highest standards.

All the departments within the faculty have extensive laboratory and computer facilities, and are well-equipped to support a practical, project-oriented approach to learning. Programmes are career-focused, with some requiring a year-long Work-integrated Learning component at diploma level. Through the different advisory boards that meet on a regular basis, close contact is maintained with industry and the private sector in an effort to ensure that learning programmes remain relevant.

The research conducted within the faculty is of an applied nature and is directed at the needs of industry and the community at large. Research projects are generally well-supported by local, national and international partners.

The faculty's aim is to deliver world-class teaching and research, while appreciating the need to be appropriately responsive to its African roots.

**Dean:** Prof. AB Ngowi

**Secretary:** Ms L Mokoma

**Tel.:** 051 507 3255 | **Fax:** 051 507 3254 | **E-mail:** lmokoma@cut.ac.za

### General enquiries

**Faculty Administrator:** Mr BW Jeremiah

**Tel.:** 051 507 3070 | **Fax:** 051 507 3254 | **E-mail:** bjeremia@cut.ac.za

**Faculty Officer:** Ms M Mbeo

**Tel.:** 051 507 3081 | **Fax:** 051 507 3254 | **E-mail:** mmbeo@cut.ac.za

# DEPARTMENT OF BUILT ENVIRONMENT

**Head of Department:**

Dr FA Emuze

**Secretary: Ms MP Atoro**

Tel.: 051 507 3915 | Fax: 051 507 3254 | E-mail: matoro@cut.ac.za

## Qualification & Code

HIGHER CERTIFICATE: CONSTRUCTION

HC\_CON

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 Year	Semester 1	140	5	National Senior Certificate or equivalent qualification	Selection

### Additional Admission Requirements

#### *For candidates who matriculated in 2007 or before:*

- A Grade 12 National Senior Certificate with a minimum score of 27 on the CUT scoring scale, plus a minimum mark of 50% on standard grade or 40% on higher grade in both Physical Sciences and Mathematics. Candidates with a score of 23 to 26 on the CUT scoring scale must successfully complete the selection process for admission, which could include the writing of an admission selection test. Mathematical Literacy will not be accepted.

#### *For candidates who completed the NSC in 2008 and thereafter:*

- A National Senior Certificate with a score of 27 on the CUT scoring scale, plus a minimum pass mark of 50% (rating 4) in both Mathematics and Physical Sciences. Candidates with a score of 23 to 26 on the CUT scoring scale must successfully complete the selection process for admission, which could include the writing of an admission selection test. Mathematical Literacy will not be accepted.

### Career Opportunities

The qualification provides:

- Foundation studies for careers within the built environment disciplines that potentially benefit from a combination of construction management and quantity surveying skills, thus contributing to the economic and national development of the country in a substantial way;
- Direct entry to further advanced programmes, such as an industry related Diploma or Bachelor's Degree.
- Foundation base required for further studies and eventual registration as a Candidate Professional with the South African Council for Quantity Surveying Professions (SACQSP) or a Candidate Professional with the South African Council for Project and Construction Management Professions (SACPCMP).

1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS
CET00BE	Construction and the Environment
COM00BE	Construction Management
CMT00BE	Construction Mathematics
CTG00BE	Construction Technology
FCL00BE	Fundamentals of Contract Law
FHD00BE	Fundamentals of Human Settlement Development
MET00BE	Measurement, Estimating and Tendering
PBS00BE	Physical Building Science
SES00BE	Site Establishment and Supervision

Qualification & Code						
BACHELOR OF CONSTRUCTION: CONSTRUCTION MANAGEMENT						
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 Years	Semester 1	374	7	National Senior Certificate or equivalent qualification	Selection
<b>Additional Admission Requirements</b> <b>For candidates who matriculated in 2007 or before:</b> <ul style="list-style-type: none"> <li>Candidates who matriculated in 2007 or before must have obtained at least a minimum of 50% on Standard Grade or 40% on Higher Grade in Mathematics, or Candidates who matriculated from 2008 onwards must have a National Senior Certificate (NSC) with a minimum score of 32 or more points on the CUT scoring scale in the Grade 12 examination and must have obtained at least a minimum of 60-69% in English and Mathematics, and Physical Science.</li> </ul> <b>For candidates who completed the NSC in 2008 and thereafter:</b> <ul style="list-style-type: none"> <li>The minimum entry requirement is the Senior Certificate (before 2008); National Senior Certificate or the National Certificate (Vocational) (from 2008) with appropriate subject combinations and levels of achievement, as defined in the Government Gazette, Vol. 751, No 32131 of 11 July 2008, and in the Government Gazette, Vol. 533, No. 32743, November 2009. Alternatively, a Higher Certificate or an Advanced Certificate or Diploma in a cognate field may satisfy the minimum admission requirements. English, Mathematics, and Physical Science are required at minimum NQF level 4.</li> </ul>						
<b>Career Opportunities</b> Employment opportunities for graduates of the programme exist in built environment. These include building construction, building maintenance, building restoration and asset management. Graduates may become part of a design or development team, be self-employed or act as consultants to the construction industry. Graduates may choose varying and challenging careers across a range of sectors including: <ul style="list-style-type: none"> <li>Construction management/project management consultancies.</li> <li>Construction and specialist trade companies.</li> <li>Design and build companies.</li> <li>Buildings renovation and restoration companies.</li> <li>Property developers and consortia.</li> <li>Local authorities and regulatory bodies.</li> <li>National departments and implementing agencies.</li> <li>State Owned Enterprises.</li> <li>Property management companies.</li> </ul>						

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
			English and Communication Studies
			Digital Literacy
CMT10BE			Construction Mathematics
CQS10BE			Quantity Surveying 1
COM10BE			Construction Management 1
RCM10BE			Residential Construction Methods
UDS10BE			Urban Development and Sustainability
CMR10BE			Construction Materials
DCO10BE			Design and Construction
	CBS20BE		Building Services
	CDL20BE		Construction and Development Law
	UDE20BE		Urban Development Economics

	CCM20BE		Commercial Construction Methods
	COM20BE		Construction Management 2
	CCA20BE		Contract Administration
	CSC20BE		Structures and Concrete
	PPA20BE		Project Planning and Administration
		COA30BE	Construction Accounting
		COM30BE	Construction Management 3
		MMC30BE	Modern Methods of Construction
		CSS30BE	Construction Surveying
		WIL30BE	Work-integrated learning (WIL)
		CPP30BE	Construction Practice Project
		PAE30BE	Price Analysis and Estimating

### Qualification & Code

#### BACHELOR OF CONSTRUCTION: QUANTITY SURVEYING

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 Years	Semester 1	374	7	National Senior Certificate or equivalent qualification.	Selection

#### Additional Admission Requirements

##### *For candidates who matriculated in 2007 or before:*

- Candidates who matriculated in 2007 or before must have obtained at least a minimum of 50% on Standard Grade or 40% on Higher Grade in Mathematics, or Candidates who matriculated from 2008 onwards must have a National Senior Certificate (NSC) with a minimum score of 32 or more points on the CUT scoring scale in the Grade 12 examination and must have obtained at least a minimum of 60-69% in English and Mathematics, and Physical Science.

##### *For candidates who completed the NSC in 2008 and thereafter:*

- The minimum entry requirement is the Senior Certificate (before 2008); National Senior Certificate or the National Certificate (Vocational) (from 2008) with appropriate subject combinations and levels of achievement, as defined in the Government Gazette, Vol. 751, No 32131 of 11 July 2008, and in the Government Gazette, Vol. 533, No. 32743, November 2009. Alternatively, a Higher Certificate or an Advanced Certificate or Diploma in a cognate field may satisfy the minimum admission requirements. English, Mathematics, and Physical Science are required at minimum NQF level 4.

#### Career Opportunities

Employment opportunities for graduates of the programme exist in built environment. These include building construction, building maintenance, building restoration and asset management. Graduates may become part of a design or development team, be self-employed or act as consultants to the construction industry. Graduates may choose varying and challenging careers across a range of sectors including:

- Quantity surveying consultancies.
- Construction and specialist trade companies.
- Design and build companies.
- Buildings renovation and restoration companies.
- Property developers and consortia.
- Local authorities and regulatory bodies.
- National departments and implementing agencies.
- State Owned Enterprises.
- Property management companies.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
			English and Communication Studies
			Digital Literacy
CMT10BE			Construction Mathematics
CQS10BE			Quantity Surveying 1
COM10BE			Construction Management 1
RCM10BE			Residential Construction Methods
UDS10BE			Urban Development and Sustainability
CMR10BE			Construction Materials
DCO10BE			Design and Construction
	CBS20BE		Building Services
	CDL20BE		Construction and Development Law
	UDE20BE		Urban Development Economics
	CCM20BE		Commercial Construction Methods
	CQS20BE		Quantity Surveying 2
	CCA20BE		Contract Administration
	CPT20BE		Procurement and Tendering
	PPA20BE		Project Planning and Administration
		COA30BE	Construction Accounting
		CQS30BE	Quantity Surveying 3
		MMC30BE	Modern Methods of Construction
		CSS30BE	Construction Surveying
		WIL30BE	Work-integrated learning (WIL)
		CPP30BE	Quantity Surveying Practice Project
		PAE30BE	Price Analysis and Estimating

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: CONSTRUCTION MANAGEMENT						ISBTRR
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time or 2 years part-time	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>Appropriate M+3 qualification.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>National Diploma: Building, with the appropriate instructional offerings.</li> <li>A weighted average of 60% in the final year of National Diploma Study 60% for Construction Management III in the final year of the National Diploma Study is recommended.</li> </ul>						
<b>Career Opportunities</b>						
<p>The construction manager is the operations management specialist of the construction industry by assuming the responsibility for the physical construction of buildings and other immovable assets. The nature of the modern construction projects demands not only sound technological knowledge, but also specialised management expertise in all project and business aspects of construction, in order to achieve stipulated performance parameters in the form of certainties related to the management of cost, time, finances and resources that are inclusive of manpower. The demand for this expertise in the construction industry is ever growing, and construction managers are often absorbed into top management positions in the construction enterprise where knowledge and skills are applied at the corporate management level.</p>						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
APC40AI	Appropriate Construction IV
ASM40AI	Asset Management IV
BEP40AI	*Building Entrepreneurship IV
COE40AI	*Construction Economics IV
CLP40AI	*Construction Law and Procedure IV
KON40AI	*Construction Management IV
DEM40AI	Development Management IV
NMD10AI	*Research Methodology I
<i>*Compulsory instructional offerings.</i>	

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: QUANTITY SURVEYING						ISBTQG
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time or 2 years part-time	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ Appropriate M+3 qualification.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ National Diploma: Building, with the appropriate instructional offerings.</li> <li>■ A weighted average of 60% in the final year of National Diploma study.</li> <li>■ 60% for Quantity Surveying III in the final year of the National Diploma study is recommended.</li> </ul>						
<b>Career Opportunities</b>						
<ul style="list-style-type: none"> <li>■ As a professional practitioner, the quantity surveyor is the financial adviser, construction cost accountant and economist of building projects who advises the client on all financial aspects of a new project. He/she would assume responsibility for assessing the financial viability of a new development proposal, seeing to the financial planning of a proposed building, preparing cost budgets during the different development phases, exercising cost control during the development phase, and settling the contractors' final accounts on completion of a project. The quantity surveyor also prepares complex tender documents for the procurement of building contracts and acts as a legal advisor and consultant with regard to contract disputes that may arise during the construction phase. The services of this consultant are indispensable to modern construction projects.</li> <li>■ The National Diploma: Building provides the student access to the BTech in Quantity Surveying programme, which in turn opens the door to the lucrative quantity surveying profession, with full registration as a professional quantity surveyor. Quantity surveyors are in high demand internationally, with lucrative employment options in the private and public sectors. The services provided by the quantity surveyor are regarded as indispensable within the construction industry today, demanding a high level of recognition both nationally and internationally as a professional practitioner and consultant.</li> </ul>						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
BEP40AI	*Building Entrepreneurship IV
COE40AI	*Construction Economics IV
CLP40AI	*Construction Law and Procedures IV

DEM40AI	Development Management IV
MVA40AI	Market Valuations IV
BRK40AI	*Quantity Surveying IV
PRO40AI	Real Estate Management IV
NMD10AI	*Research Methodology I
<i>*Compulsory instructional offerings.</i>	

## DEPARTMENT OF CIVIL ENGINEERING

**Head of Department:**  
Prof. YE Woyessa  
**Acting Head of Department:**  
Prof D K Das

**Secretary: Ms P Mojo**  
Tel.: 051 507 3082 | Fax: 051 507 3254 | E-mail: spheto@cut.ac.za

### Qualification & Code

ADVANCED DIPLOMA: LOGISTICS AND TRANSPORTATION MANAGEMENT ADLTME

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	132	7	See below: Additional Admission Requirements.	Selection

#### Additional Admission Requirements

##### *For candidates who matriculated in 2007 or before:*

- A National Diploma in either Civil Engineering (or Engineering Technology in Civil) or Management (both at NQF level 6) OR
- A Diploma in either Civil Engineering (or Engineering Technology in Civil) or Management (both at NQF level 6) OR
- Relevant sufficient experience in the logistics and transportation sector PLUS any qualification at NQF level 6. These applications will be considered individually by a panel of the CUT for admission.

##### *For candidates who completed the NSC in 2008 and thereafter:*

- A National Diploma in either Civil Engineering (or Engineering Technology in Civil) or Management (both at NQF level 6) OR
- A Diploma in either Civil Engineering (or Engineering Technology in Civil) or Management (both at NQF level 6) OR
- Relevant sufficient experience in the logistics and transportation sector PLUS any qualification at NQF level 6. These applications will be considered individually by a panel of the CUT for admission.

#### Career Opportunities

Public and private sectors dealing with logistics and transportation system are potential employers of graduates of this programme at local, regional and national level. Graduates from this programme will be able to identify, prepare, analyse and manage Logistics and transport projects, and conduct freight planning and its management. These will also give career opportunities to graduates with companies dealing with transport economics, engineering and infrastructural developments.

SEMESTER 1	INSTRUCTIONAL OFFERINGS
IRP0011	Introduction to Research and Research Project
PJM0011	Project Management
BLM0011	Business Logistics and Management I
TPP0011	Transportation Planning
TFM0011	Traffic Planning and Management#
QTO0011	Quantitative Techniques and Optimisation#
IFP0011	Infrastructure Planning
RTE0011	Rail Transportation#
LCT0011	Local Transportation#
<i># Elective subjects: students are required to choose one elective per semester.</i>	
<i>* Year subject.</i>	

SEMESTER 2	INSTRUCTIONAL OFFERINGS
BLM0022	Business Logistics and Management II
TSE0022	Transportation Economics
IVM0022	Inventory Management
FRM0022	Freight Planning and Management
THE0022	Transportation and Highway Engineering#
URP0022	Urban and Regional Planning#
IFP0012	Infrastructure Planning
RTE0012	Rail Transportation#
LCT0012	Local Transportation#
<i># Elective subjects: students are required to choose one elective per semester.</i>	

Qualification & Code						
NATIONAL DIPLOMA: ENGINEERING: CIVIL						ISNDLS
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 Years	Semester 1 and 2	360	6	National Senior Certificate or equivalent qualification	Selection

### Additional Admission Requirements

#### *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 both Mathematics and Physical Science 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 both Mathematics and Physical Science is required.

### Career Opportunities

A person holding this qualification is prepared for a career as an engineering technologist in the civil engineering industry. Three basic activities are dealt with, namely planning and design, construction, and maintenance. The work to be performed will vary, depending on the area in which the individual is working, such as surveying, design, cost accounting, draughting, traffic studies and material testing. Career opportunities exist in government departments such as Transport, as well as organisations such as PRASA and Transnet Freight Rail, Eskom, mining companies, construction firms, civil consulting engineers, and research institutions. A person holding this qualification can also start his/her own business.

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 1		SEMESTER 2		
January	July	January	July	
CAM11AI	CAM12AI			Applied Mechanics I
COM11AI	COM12AI			Computer Skills I
KMA11AI	KMA12AI			Construction Materials I
CDR11AI	CDR12AI			Drawing I
PRE1A	PRE2B			English Proficiency (Semester 1) and English Proficiency (Semester 2)
		PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
CMC11AI	CMC12AI			Management (Civil) I
WIS11AI	WIS12AI			Mathematics I
		ECM11BI	ECM12BI	Communication Skills I
		KMT11AI	KMT12AI	Construction Methods I
		CDR21AI	CDR22AI	Drawing II
		CMC21AI	CMC22AI	Management (Civil) II
		WIS21AI	WIS22AI	Mathematics II
		CSU11AI	CSU12AI	Surveying I
		CTS21AI	CTS22AI	Theory of Structures II

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
CGE21AI	CGE22AI			Geotechnical Engineering II
SSL31AI	SSL32AI			Structural Steel and Timber Design III
CSA21AI	CSA22AI			Structural Analysis II
CSU21AI	CSU22AI			Surveying (Civil) II

CTE21AI	CTE22AI			Transportation Engineering II
CWE21AI	CWE22AI			Water Engineering II
		CDO31AI	CDO32AI	Documentation III
		CGE31AI	CGE32AI	Geotechnical Engineering III
		GWP31AI	GWP32AI	Reinforced Concrete and Masonry Design III
		CSA31AI	CSA32AI	Structural Analysis III
		CTE31AI	CTE32AI	Transportation Engineering III
		CWE31AI	CWE32AI	Water Engineering III

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTERS 5 & 6		
January	July	
CEX11ZI	CEX12ZI	Work-integrated Learning I
CEX21ZI	CEX22ZI	Work-integrated Learning II

Qualification & Code						
Diploma in Engineering Technology in Civil Engineering						
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or Interview
Bloemfontein	2 Years		280	6	National Senior Certificate or equivalent qualification	Selection
<b>Additional Admission Requirements</b>						
<b>For admission to Diploma in Engineering Technology in Civil Engineering (DipEng Tech (Civil Engineering) at the CUT, candidates must, in addition to the general admission requirements of the CUT, meet the following minimum requirements:</b>						
<ul style="list-style-type: none"> <li>■ Admission points score of 28</li> <li>■ NSC <ul style="list-style-type: none"> <li>▪ Minimum NSC requirements for degree studies must be met</li> <li>▪ Achievement rating of at least 4 (50-59%) for English</li> <li>▪ Achievement rating of at least 4 (60-69%) for Mathematics and Physical Sciences</li> </ul> </li> <li>■ N-Courses (FET) <ul style="list-style-type: none"> <li>▪ 60% pass in N3 Engineering Mathematics and Engineering Science and English (Grade 12 Level)</li> </ul> </li> <li>■ National Certificate Vocational (NCV) Subjects at NCV Level 4 <ul style="list-style-type: none"> <li>▪ 60% in English, Mathematics, Physical Sciences); and</li> <li>▪ 60% in any 3 of the other compulsory subjects</li> </ul> </li> <li>■ Higher Certificate <ul style="list-style-type: none"> <li>▪ 60% in all subjects</li> <li>▪ Candidates may apply for RPL for credits obtained in Higher Certificate</li> </ul> </li> </ul>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required.</li> </ul>						

### Career Opportunities

A person holding this qualification is prepared for a career as an engineering technician in the construction industry. Three basic activities are dealt with, namely planning and design, construction, and maintenance. The work to be performed will vary, depending on the area in which the individual is working, but in all respects, he/she will be required to assist professional engineers. Other work will involve surveying, design, cost accounting, draughting, traffic studies and material testing. Career opportunities exist in government departments such as Water Affairs, as well as organisations such as PRASA, Eskom, mining companies, construction firms, civil consulting engineers, and research institutions. A person holding this qualification can also start his/her own business.

MODULE NAME	NQF LEVEL	CREDIT VALUE	C/E	MODUEL NAME	CREDIT VALUE
<b>1<sup>ST</sup> YEAR</b>					
Semester 1				Semester 2	
Digital Literacy I	5	14	C	Mathematics II	14
Academic Literacy and Communication Studies I	5	14	C	Construction Methods	14
Mathematics I	5	14	C	Theory of Structures	14
Engineering Mechanics	5	14	C	Drawing I	14
Construction Materials	5	14	C	Soil Mechanics	14
<b>TOTAL CREDITS FOR SUBJECTS YEAR 1</b>					140
<b>2<sup>ND</sup> YEAR</b>					
Semester 1				Semester 2	
Surveying I	5	14	C	Surveying II	14
Transportation Engineering I	6	14	C	Transportation Engineering II	14
Design of Structures-I	6	14	C	Design of Structures-II	14
Drawings II	6	14	C	Engineering Project Management	14
Hydrology	6	14	C	Hydraulics	14
<b>TOTAL CREDITS FOR SUBJECTS YEAR 2</b>					140
<b>TOTAL CREDITS</b>					280

4TH YEAR		INSTRUCTIONAL OFFERINGS
URBAN		
SEMESTER 1	SEMESTER 2	
January	July	
	KMA42AI	Construction Materials Technology IV
	GEO42AI	Geometric Design IV
HDR42AI		Hydraulics IV
PLA41AI		Pavement Technology IV

PJK41AI	PJK41AI	Project Management IV (Compulsory in both semesters)
	NWK42AI	Reticulation Design and Management IV (Compulsory)
STE41AI		Urban Planning and Design IV

4 <sup>TH</sup> YEAR TRANSPORTATION		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
January	July	
ASF41AI		Asphalt Technology IV
	BET42AI	Concrete Technology IV
	GEO42AI	Geometrical Design IV
HID41AI		Hydrology IV
PLA41AI		Pavement Technology IV
PJK41AI	PJK41AI	Project Management: Civil IV (Compulsory in both semesters)
	VKR42AI	Traffic Engineering IV
	VVR42AI	Transportation Planning IV

4 <sup>TH</sup> YEAR WATER		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
January	July	
	DAM42AI	Dam Engineering IV
HDR41AI		Hydraulics IV (Compulsory)
HID41AI		Hydrology IV (Compulsory)
	BSP42AI	Irrigation IV
PJK41AI	PJK41AI	Project Management IV (Compulsory in both semesters)
	NWK41AI	Reticulation Design and Management IV
	AFW42AI	Waste Water Treatment Technology IV
WBH41AI		Water Treatment Technology IV

Qualification & Code						
BACHELOR OF ENGINEERING TECHNOLOGY IN CIVIL ENGINEERING						
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 Years	Semester 1 and 2	420	7	National Senior Certificate or equivalent qualification	Selection

### Additional Admission Requirements

For admission to the Programme Bachelor of Engineering Technology in Civil Engineering (BEng Tech (Civil Engineering)) at the CUT, candidates must, in addition to the general admission requirements of the CUT, meet the following minimum requirements:

For admission to the programme, candidates must have a total point score of 32. Moreover, the following specific requirements need to be met by candidates with different certificates.

**For candidates who completed the NSC in 2008 and thereafter:**

- Minimum NSC requirements for degree studies must be met
- Achievement rating of at least 4 (50-59%) for English
- Achievement rating of at least 5 (60-69%) for Mathematics
- Achievement rating of at least 4 (50-59%) for Physical Sciences

■ **N-Courses (FET)**

- 60% pass in N4 Engineering Mathematics and Engineering Science and English (Grade 12 Level)
- 60% in any 3 of the other related subjects
- Satisfactory performance in Selection Test

■ **National Certificate Vocational (NCV) Subjects at NCV Level 4:**

- 60% in English, Mathematics, Physical Sciences, Life Orientation; and
- 60% in any 2 of the other compulsory subjects
- Satisfactory performance in Selection Test

■ **Higher Certificate**

- 60% average for the Higher Certificate
- Candidates may apply for RPL for credits obtained in Higher Certificate

■ **Diploma in Civil Engineering**

- Average of 60% for diploma

Candidates may apply for RPL for credits obtained in Diploma

### Career Opportunities

A person holding this qualification is prepared for a career as an engineering technologist in the Civil Engineering and construction industry. Three basic activities are dealt with, namely planning and design, construction, and maintenance. The work to be performed will vary, depending on the area in which the individual is working, but in all respects, he/she will be required to assist professional engineers. Other work will involve surveying, analysis, design, cost accounting, draughting, traffic studies and material testing. Career opportunities exist in government departments such as Road and Transportation, Water Affairs, as well as organisations such as PRASA, Eskom, mining companies, construction firms, civil consulting engineers, and research institutions. A person holding this qualification can also start his/her own business.

YEAR	MODULES	CREDITS
1 <sup>ST</sup> YEAR	Semester 1	
	Digital Literacy I	14
	Academic Literacy and Communication Studies I	14
	Engineering Mathematics I	14
	Physics I	14
	Engineering Drawings -I	14
	Semester 2	
	Geomatics-I	14
	Construction Engineering-I	14
	Engineering Mathematics II	14
	Engineering Mechanics	14
Engineering Drawings-II	14	
	TOTAL CREDIT FOR YEAR 1	140

2 <sup>ND</sup> YEAR	Semester 1	
	Engineering Mathematics-III	14
	Urban planning and design	14
	Structural Analysis-I	14
	Geomatics-II	14
	Construction Engineering-II	14
	Semester 2	
	Geotechnical Engineering-I	14
	Engineering Hydrology	14
	Transportation Planning and Traffic Engineering	14
	Structural Analysis-II	14
	Engineering Project Management	14
	<b>TOTAL CREDIT FOR YEAR 2</b>	<b>140</b>
3 <sup>RD</sup> YEAR	Semester 1	
	Engineering Hydraulics	14
	Road and Transportation Engineering	14
	Design of Structures-I	14
	Geotechnical Engineering-II	14
	Water Resources Systems Analysis	14
	Semester 2	
	Road Design	14
	Water Supply and Sanitation Engineering	14
	Design of Structures-II	14
	Final Year Project	28
<b>TOTAL CREDIT FOR YEAR 3</b>	<b>140</b>	
<b>TOTAL CREDITS</b>	<b>420</b>	

### Qualification & Code

BACHELOR OF SCIENCE: HYDROLOGY AND WATER RESOURCES MANAGEMENT

BSHWRM

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 Years	Semester 1	366	7	National Senior Certificate or equivalent qualification.	Selection

#### Additional Admission Requirements

##### *For candidates who matriculated in 2007 or before:*

- In addition to the general admission requirements, a minimum mark of 50% on SG or 40% on HG in Biology/ Physiology and Mathematics and Physical Sciences is required. A minimum admission point score (APS) of 28 points on the CUT scale of notation is also required.

##### *For candidates who completed the NSC in 2008 and thereafter:*

- In addition to the general admission requirements, the candidate must be in possession of the NSC with endorsement for a bachelor's degree. A minimum mark of 50% in Life Sciences/Physiology and Mathematics and Physical Sciences is required. A minimum admission point score (APS) of 28 points on the CUT scale of notation is also required.

#### Career Opportunities

Water management is classified as a scarce skill in South Africa and is listed in the Department of Labour 2007 National Scarce Skills List. Graduates from this programme will have career opportunities in national and local government departments, municipalities and private companies involved in water management, water supply and distribution, water and wastewater treatments, environmental management, etc.

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
LCS5011		Academic and communication studies
DLC5001		Digital Literacy
NMR5011		Numeracy
CHE5011		Chemistry
PYC5011		Physics
	AMM5012	Applied Mathematics
	HYD5012	Hydrology I
	WTM5012	Water Resources Management I
	EVS5012	Environmental Science

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
HDC6000		Hydro Chemistry*
GHR6000		Geo-Hydrology*
HYD6000		Hydrology II*
WTM6000		Water Resources Management II*
EVM6022		Environmental Engineering
WIL6022		Work Integrated Learning (General)
*Year subjects.		

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS
HYD7000		Hydrology III*
WTM7000		Water Resources Management III*
AWT7000		Advanced Water and Waste Water Treatment Technology*
WIL7000		Work Integrated learning in Elective
WTC7000		Water Pollution Control** OR
RDM7000		Reticulation Design and Management**
*Year subjects.		
# Elective subjects: students are required to choose one elective per semester.		

## DEPARTMENT OF ELECTRICAL, ELECTRONIC AND COMPUTER ENGINEERING

**Head of Department:**

Dr K. Kusakana

**Ms E Simpson**

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### Qualification & Code

HIGHER CERTIFICATE: RENEWABLE ENERGY TECHNOLOGIES

IEHCRE

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	5	See below: Additional Admission Requirements	Selection

### Additional Admission Requirements

#### For candidates who matriculated in 2007 or before:

- In addition to the CUT general admission requirements, a Senior Certificate with a minimum score of 27 on the CUT scoring scale, plus a minimum of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required.

#### For candidates who completed the NSC in 2008 and thereafter:

- In addition to the CUT general admission requirements, a Senior Certificate with a minimum score of 27 on the CUT scoring scale, plus a minimum mark of 50% (level 4) in both Mathematics and Physical Science, is required.

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

### Career Opportunities

The purpose of this qualification is to educate and train the renewable technician to have the necessary knowledge, skills, attitudes and values to be able to work in the renewable energy field in South Africa. Learners who complete this qualification will be competent and responsible auxiliaries in the implementation of renewable energy technologies (RET). They will be able to assist technologists and engineers in the installation, commissioning and maintenance of RET systems.

### Remarks:

- All instructional offerings are compulsory.
- Any application for subject recognition will be considered ONLY for subjects completed at equivalent level, not lower.
- The qualification will be issued on completion of 120 credits.
- One intake per year in January.
- After successful completion of this qualification, a higher certificate will be awarded during an official graduation ceremony at CUT.

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
DLC5011		Digital Literacy
LCS5011	LCS5012	Academic Literacy and Communication Studies
WIS5011		Mathematics IA
EEN5011		Electrical Engineering I
PPE5011		Applied Physics of Energy Conversion
LES5011		Solar Energy Systems I
	HPP5012	Health and Safety: Principles and Practice
	EIP5012	Electrical Installation Practice
	PGS5012	Power Generation and Storage
	LES5022	Solar Energy Systems II
	LWG5012	Small Wind Generation
	WIS5012	Mathematics IB

Qualification & Code						
NATIONAL DIPLOMA: ENGINEERING: COMPUTER SYSTEMS						IENDCY
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection

### Additional Admission Requirements

#### For candidates who matriculated in 2007 or before:

- A Grade 12 National Senior Certificate with a minimum score of 27 on the CUT scoring scale, plus a minimum of 50% on Standard Grade or 40% on Higher Grade in both Physical Science and Mathematics. Mathematical Literacy will **not** be accepted.

#### For candidates who completed the NSC in 2008 and thereafter:

- A National Senior Certificate with a score of 27 on the CUT scoring scale, plus a minimum pass mark of 50% (rating 4) in both Mathematics and Physical Science. Mathematical Literacy will **not** be accepted.

### Career Opportunities

This programme is recommended for persons with an interest in the use and development of computers. The curriculum consists primarily of a combination of programming and electronics, and has been developed for technicians seeking to operate and maintain computer-supported process control systems and computer networks. Typical employers would be industries such as Iscor, Sasol, Eskom, Telkom and Vodacom. Organisations that install and operate computer networks often present career opportunities for qualified students, and entrepreneurs can also establish their own businesses.

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 1		SEMESTER 2		
January	July	January	July	
ECM11BI	ECM12BI			*Communication Skills I
COM11AI	COM12AI			*Computer Skills I
EDS11BI	EDS12BI			*Digital Systems I
EEN11AI	EEN12AI			*Electrical Engineering I
ELE11AI	ELE12AI			*Electronics I
WIS11AI	WIS12AI			*Mathematics I
PRE1A	PRE2B	PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
PRG11AI	PRG12AI			*Programming I
		EDS21BI	EDS22BI	*Digital Systems II
		ELE21AI	ELE22AI	*Electronics II
		ENT21AI	ENT22AI	Entrepreneurship II
		WIS21AI	WIS22AI	*Mathematics II
		NET21AI	NET22AI	*Network Systems II
		PRG21AI	PRG22AI	*Programming II

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
EDS31BI	EDS32BI			*Digital Systems III
ELA31BI	ELA32BI			*Electronics III
WIT31AI	WIT32AI			Mathematical Applications III
NET31AI	NET32AI			*Network Systems III
PRG31AI	PRG32AI			*Programming III

SYS21AI	SYS22AI			*Systems Analysis II
		DAT31BI	DAT32BI	*Database Principles III
		EDP31AI	EDP32AI	*Design Project III
		LOG31BI	LOG32BI	*Logic Design III
		MIP31BI	MIP32BI	Microprocessors III
		OPT31AI	OPT32AI	*Operating Systems III
		SOF31BI	SOF32BI	*Software Engineering III

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	
SEMESTERS 5 & 6			
January	July		
EXP11ZI	EXP12ZI	*Work-integrated Learning I	
EXP21ZI	EXP22ZI	*Work-integrated Learning II	
<i>*Compulsory instructional offerings.</i>			

Qualification & Code						
NATIONAL DIPLOMA: ENGINEERING: ELECTRICAL ( <i>Light Current</i> )						IENDLC
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1 and 2	360	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required. Mathematical Literacy will not be accepted.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required. Mathematical Literacy will not be accepted.</li> </ul>						
<b>Career Opportunities</b>						
<p>The advances made in electronics over the past few decades have been phenomenal, and therefore any person holding this qualification must always be prepared to keep abreast of the latest developments. The field of electronics includes telecommunications, radio and television, radar, computers, electronic control systems and industrial electronic systems, especially computer-supported equipment. Qualified persons will also be involved in the development, building and maintenance of new equipment. Companies such as the SABC, Sentech, Eskom and Telkom, the mining industry, industrial plants such as Sasol and Columbus Steel, as well as research institutions, are but a few possible employers. A person holding such a qualification could also establish his/her own business.</p>						

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 1		SEMESTER 2		
January	July	January	July	
ECM11BI	ECM12BI			*Communication Skills I
COM11AI	COM12AI			*Computer Skills I
EDS11BI	EDS12BI			Digital Systems I
PRE1A	PRE 2B	PRE1A	PRE 2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
EEN11AI	EEN12AI			*Electrical Engineering I

ELE11AI	ELE12AI			*Electronics I
WIS11AI	WIS12AI			*Mathematics I
		EDS21BI	EDS22BI	Digital Systems II
		EEN21AI	EEN22AI	*Electrical Engineering II
		ELE21AI	ELE22AI	*Electronics II
		WIS21AI	WIS22AI	*Mathematics II
		EPR11AI	EPR12AI	Projects I

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
EDS31BI	EDS32BI			Digital Systems III
EEN31AI	EEN32AI			Electrical Engineering III
EKM21AI	EKM22AI			Electronic Communication II
ELA31BI	ELA32BI			Electronics III
WIS31AI	WIS32AI			Mathematics III
EPR21AI	EPR22AI			Projects II
		ECN31BI	ECN32BI	Control Systems III
		EDP31LI	EDP32LI	*Design Project III (Light Current)
		ELT31AI	ELT32AI	Electronic Applications III
		LOG31BI	LOG32BI	Logic Design III
		ERE31AI	ERE32AI	Radio Engineering III
		ESO21AI	ESO22AI	Software Design II

3 <sup>RD</sup> YEAR			INSTRUCTIONAL OFFERINGS
SEMESTERS 5 & 6			
January		July	
EEX11ZI		EEX12ZI	Work-integrated Learning I
EEX21ZI		EEX22ZI	Work-integrated Learning II
<i>*Compulsory instructional offerings.</i>			

Qualification & Code						
NATIONAL DIPLOMA: ENGINEERING: ELECTRICAL ( <i>Heavy Current</i> )						IENDTS
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1 and 2	360	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required. Mathematical Literacy will <b>not</b> be accepted.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required. Mathematical Literacy will <b>not</b> be accepted.</li> </ul>						

## Career Opportunities

The generation, distribution and utilisation of electrical power are of the utmost importance in our country. A technologist who is qualified in this field will be concerned with the planning, production, installation and maintenance of a wide variety of heavy electrical equipment. He/she will occupy a responsible position in the community and enjoy a high level of job satisfaction. Employment opportunities exist with Eskom, PRASA and Transnet Freight Rail, Columbus Steel, suppliers of electrical equipment, the mining industry, municipalities, consulting engineers and research institutions. A person holding this qualification could also establish his/her own business.

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 1		SEMESTER 2		
January	July	January	July	
ECM11BI	ECM12BI			*Communication Skills I
COM11AI	COM12AI			*Computer Skills I
EDS11BI	EDS12BI			Digital Systems I
EEN11AI	EEN12AI			*Electrical Engineering I
ELE11AI	ELE12AI			*Electronics I
PRE1A	PRE2B	PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
WIS11AI	WIS12AI			*Mathematics I
MEC11AI	MEC12AI			Mechanics I
		EDS21BI	EDS22BI	Digital Systems II
		EEN21AI	EEN22AI	*Electrical Engineering II
		ELE21AI	ELE22AI	*Electronics II
		WIS21AI	WIS22AI	*Mathematics II
		EMD11AI	EMD12AI	Mechanical Technology I
		EMJ21AI	EMJ22AI	Electrical Machines
		MSM21AI	MSM22AI	Strength of Materials II

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
EDS31BI	EDS32BI			Digital Systems III
EEN31AI	EEN32AI			Electrical Engineering III
EMJ31AI	EMJ32AI			Electrical Machines III
EKM21AI	EKM22AI			Electronic Communication II
ELA31BI	ELA32BI			Electronics III
EID21AI	EID22AI			Industrial Electronics II
WIS31AI	WIS32AI			Mathematics III
EMD21AI	EMD22AI			Mechanical Technology II
EPR21AI	EPR22AI			Projects II
MSM31BI	MSM32BI			Strength of Materials III
		MSK31AI	MSK32AI	Applied Strength of Materials III
		ECN31BI	ECN32BI	Control Systems III
		EDP31HI	EDP32HI	*Design Project III (Heavy Current)
		EBE31AI	EBE32AI	Electrical Protection III

		ELT31AI	ELT32AI	Electronic Applications III
		LOG31BI	LOG32BI	Logic Design III
		EMD31AI	EMD32AI	Mechanical Technology III
		EPE31AI	EPE32AI	Power Electronics III
		ERE31AI	ERE32AI	Radio Engineering III
		ESO21AI	ESO22AI	Software Design II
		EVE31AI	EVE32AI	Electrical Distribution III

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	
SEMESTERS 5 & 6			
January	July		
EEX11ZI	EEX12ZI	Work-integrated Learning I	
EEX21ZI	EEX22ZI	Work-integrated Learning II	

### NATIONAL DIPLOMAS: EXTENDED CURRICULUM PROGRAMMES

Qualification & Code						
NATIONAL DIPLOMA: ENGINEERING: ELECTRICAL ( <i>ELECTRONIC LC</i> )						EXNDEC
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	4 years	Semester 1 and 2	360	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<i>For candidates who matriculated in 2007 or before:</i>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required. Mathematical Literacy will not be accepted.</li> </ul>						
<i>For candidates who completed the NSC in 2008 and thereafter:</i>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required. Mathematical Literacy will not be accepted.</li> </ul>						
<b>Career Opportunities</b>						
<p>The advances made in electronics over the past few decades have been phenomenal, and therefore any person holding this qualification must always be prepared to keep abreast of the latest developments. The field of electronics includes telecommunications, radio and television, radar, computers, electronic control systems and industrial electronic systems, especially computer-supported equipment. Qualified persons will also be involved in the development, building and maintenance of new equipment. Companies such as the SABC, Sentech, Eskom and Telkom, the mining industry, industrial plants such as Sasol and Columbus Steel, as well as research institutions, are but a few possible employers. A person holding such a qualification could also establish his/her own business.</p>						

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS	
SEMESTER 1		SEMESTER 2			
January	July	January	July		
ECM11BI	ECM12BI			*Communication Skills I	
COM11AI	COM12AI			*Computer Skills	
PRE1A	PRE2B	PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)	

INX01CP	INX02CP			Industrial Experience
LSS01CP	LSS02CP			Life Skills
WIS01CP	WIS02CP			Mathematics
FIS01CP	FIS02CP			Physics
		EDS11BI	EDS12BI	Digital Systems I
		EEN11AI	EEN12AI	*Electrical Engineering I
		ELE11AI	ELE12AI	*Electronics I
		WIS11AI	WIS12AI	*Mathematics I

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
EDS21BI	EDS22BI			Digital Systems II
EEN21AI	EEN22AI			*Electrical Engineering II
ELE21AI	ELE22AI			*Electronics II
WIS21AI	WIS22AI			*Mathematics II
		EDS31BI	EDS32BI	Digital Systems III
		EEN31AI	EEN32AI	Electrical Engineering III
		EMJ21AI	EMJ22AI	Electrical Machines II
		ELA31BI	ELA32BI	Electronics III
		WIS31AI	WIS32AI	Mathematics III
		EPR11AI	EPR12AI	Projects I

3 <sup>RD</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 5		SEMESTER 6		
January	July	January	July	
EVE31AI	EVE32AI			Electrical Distribution III
EMJ31AI	EMJ32AI			Electrical Machines III
ELT31AI	ELT32AI			Electronic Applications III
EKM21AI	EKM22AI			Electronic Communication II
EID21AI	EID22AI			Industrial Electronics II
LOG31BI	LOG32BI			Logic Design III
EPR21AI	EPR22AI			Projects II
		ECN31BI	ECN32BI	Control Systems III
		EDP31LI	EDP32LI	*Design Project III (Light Current)
		EBE31AI	EBE32AI	Electrical Protection III
		EPE31AI	EPE32AI	Power Electronics III
		ERE31AI	ERE32AI	Radio Engineering III
		ESO21AI	ESO22AI	Software Design II

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTERS 7 & 8		
January	July	
EEX11ZI	EEX12ZI	*Work-integrated Learning I
EEX21ZI	EEX22ZI	*Work-integrated Learning II

\*Compulsory instructional offerings.

Qualification & Code						
NATIONAL DIPLOMA: ENGINEERING: ELECTRICAL ( <i>Heavy Current</i> )						EXNDEL
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1 and 2	360	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required. Mathematical Literacy will not be accepted.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required. Mathematical Literacy will not be accepted.</li> </ul>						
<b>Career Opportunities</b>						
<p>The generation, distribution and utilisation of electrical power are of the utmost importance in our country. A technician who is qualified in this field will be concerned with the planning, production, installation and maintenance of a wide variety of heavy electrical equipment. He/she will occupy a responsible position in the community and enjoy a high level of job satisfaction. Employment opportunities exist with Eskom, PRASA, Transnet Freight Reil, Columbus Steel, suppliers of electrical equipment, the mining industry, municipalities, and research institutions. A person with this qualification could also establish his/her own business.</p>						

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 1		SEMESTER 2		
January	July	January	July	
ECM11BI	ECM12BI			*Communication Skills I
COM11AI	COM12AI			*Computer Skills
PRE1A	PRE2B	PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
INX01CP	INX02CP			Industrial Experience
LSS01CP	LSS02CP			Life Skills
WIS01CP	WIS02CP			Mathematics
FIS01CP	FIS02CP			Physics
		EDS11BI	EDS12BI	Digital Systems I
		EEN11AI	EEN12AI	*Electrical Engineering I
		ELE11AI	ELE12AI	*Electronics I
		WIS11AI	WIS12AI	*Mathematics I

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
EDS21BI	EDS22BI			Digital Systems II
EEN21AI	EEN22AI			*Electrical Engineering II
ELE21AI	ELE22AI			*Electronics II
WIS21AI	WIS22AI			*Mathematics II
		EDS31BI	EDS32BI	Digital Systems III
		EEN31AI	EEN32AI	Electrical Engineering III
		EMJ21AI	EMJ22AI	Electrical Machines II
		WIS31AI	WIS32AI	Mathematics III

3 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 5		SEMESTER 6		
January	July	January	July	
EVE31AI	EVE32AI			Electrical Distribution III
EMJ31AI	EMJ32AI			Electrical Machines III
EID21AI	EID22AI			Industrial Electronics II
LOG31BI	LOG32BI			Logic Design III
		EDP31LI	EDP32LI	*Design Project III (Light Current)
		EBE31AI	EBE32AI	Electrical Protection III
		EPE31AI	EPE32AI	Power Electronics III

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTERS 7 & 8		
January	July	
EEX11ZI	EEX12ZI	*Work Integrated Learning I
EEX21ZI	EEX22ZI	*Work Integrated Learning II

\*Compulsory instructional offerings.

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: ENGINEERING: ELECTRICAL						IEBTEG
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time or 2 years part-time	Semester 1 and 2	120	7	See below: Additional Admission Requirements	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ Appropriate M+3 qualification.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ National Diploma: Electrical Engineering with the appropriate instructional offerings.</li> </ul>						
<b>Career Opportunities</b>						
<b>(Computer Systems &amp; Light Current)</b>						
<p>The advances made in electronics over the past few decades have been phenomenal, and therefore any person holding this qualification must always be prepared to keep abreast of the latest developments. The study of electronics includes telecommunications, radio and television, radar, computers, electronic control systems and industrial electronic systems, especially computer-supported equipment. Qualified persons will also be involved in the development, building and maintenance of new equipment. Companies such as the SABC, Sentech, Eskom and Telkom, the mining industry, industrial plants such as Sasol and Columbus Steel, and research institutions are but a few possible employers. A person holding this qualification could also establish his/her own business.</p>						
<b>(Heavy Current)</b>						
<p>The generation, distribution and utilisation of electrical power are of the utmost importance in our country. A technologist who has qualified in this field will be concerned with the planning, production, installation and maintenance of a wide variety of heavy electrical equipment. He/she will occupy a responsible position in the community and enjoy a high level of job satisfaction. Employment is available at Eskom, PRASA, Transnet Freight Rail, Columbus Steel, suppliers of electrical equipment, mining companies, municipalities and research institutions. A person holding this qualification could also establish his/her own business.</p>						

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
January	July	
REN41AI	REN42AI	Computer Networks IV
DBP41AI	DBP42AI	Database Programming IV
EDG41AI	EDG42AI	Digital Signal Processing IV
EMJ41AI	EMJ42AI	Electrical Machines IV
EBE41AI	EBE42AI	Electrical Protection IV
EKS41AI	EKS42AI	Electronic Communication Systems IV
EKM41AI	EKM42AI	Electronic Communication IV
ELE41AI	ELE42AI	Electronics IV
EIW41AI	EIW42AI	Engineering Mathematics IV
EHV41AI	EHV42AI	High-voltage Engineering IV
EMO41AI	EMO42AI	Microsystems Design IV
EMI41AI	EMI42AI	Microcontroller Systems IV
EPE41AI	EPE42AI	Power Electronics IV
EPS41AI	EPS42AI	Power Systems IV
EBT41AI	EBT42AI	Protection Technology IV
PIG41AI	PIG42AI	Software Engineering IV
SFS41AI	SFS42AI	Software Systems IV
EIP40AI		*Industrial Project IV (Light Current)
EIP40HI		*Industrial Project IV (Heavy Current)

## DEPARTMENT OF INFORMATION TECHNOLOGY

**Head of Department:**

Dr M Masinde

**Secretary: Ms JA van der Westhuizen**

Tel.: 051 507 3092 | Fax: 051 507 3653 | E-mail: jvdwest@cut.ac.za | it@cut.ac.za

### Qualification & Code

#### DIPLOMA IN COMPUTER NETWORKING

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 years	Semester 1	387	6	National Senior Certificate or equivalent qualification.	Selection

#### Additional Admission Requirements

**For candidates who matriculated in 2007 or before:**

- In addition to the general admission requirements, a minimum mark of 60% on Standard Grade or 40% on Higher Grade in Mathematics or Computer Studies is required.

**For candidates who completed the NSC in 2008 and thereafter:**

- In addition to the general admission requirements, a minimum mark of 60% in Mathematic Literacy or 40% in either Mathematics or Information Technology is required.

## Career Opportunities

The world is increasingly becoming a global village, with Information and Communication Technologies (ICTs) playing a fundamental role in our day-to-day lives. South Africa, like other countries, realises that ICTs can indeed bring about positive change in its socio-economic development. CUT's contribution to this national agenda is realised through diploma, BTech and MTech programmes offered in the Department of IT. Through these programmes, the university contributes to the ever-increasing demand for a wide range of highly skilled information technology professionals in fields such as web applications, communication networks and software development. The department is particularly unique in the country, as it offers courses in mobile programming and games development. The department has state-of-the-art Cisco equipment through which students get hands-on experience in computer networking, which provides opportunities for various professional certification pathways.

**Our graduates will be able to take up jobs in:**

- **Systems analysis:** System developers, application designers, business analysts, information analysts, management information analysts, system analysts.
- **Computer networking:** Computer network administrators and technical assistants.
- **Database development and management:** Business database analysts, database administrators, database managers.
- **Project management:** Information Systems (IS) project leaders.

## Remarks

Year 1 has year subjects as well as first and second semester subjects. The 5th character indicates if it is a year (0), semester 1 (1) or semester 2 (2) subject. In year 1 ITM105C is a year subject, PSA115C is semester 1 subject and INP125C is a second-semester subject.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
ALP115C			Academic Literacy and Personal Competencies
ALP125C			Academic Literacy and Personal Competencies
PSA115C			Problem Solving and Algorithms
SPG115C			System Software IA
SPG125C			System Software IB
ITM105C			Information Technology Mathematics I
ITE105C			Information Technology Essentials I
SOD105C			Software Development I
	DBS216C		Databases II
	SOD216C		Software Development IIA
	SOD226C		Software Development IIB
	SOE226C		Software Engineering II
	SPG216C		System Software IIA
	SPG226C		System Software IIB
	CMN216C		Communication Networks IIA
	CMN226C		Communication Networks IIB
		CNS316C	Information Technology and Society I
		CNR316C	Communication Networks II
		SOE316C	Software Engineering III
		SOD316C	Software Development III
		WLM327C	Work Integrated Learning in Information Technology

Qualification & Code						
DIPLOMA IN INFORMATION TECHNOLOGY						BCBTIP
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	390	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 60% on Standard Grade or 40% on Higher Grade in Mathematics or Computer Studies is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 60% in Mathematic Literacy or 40% in either Mathematics or Information Technology is required.</li> </ul>						
<b>Career Opportunities</b>						
<p>The world is increasingly becoming a global village, with Information and Communication Technologies (ICTs) playing a fundamental role in our day-to-day lives. South Africa, like other countries, realises that ICTs can indeed bring about positive change in its socio-economic development. CUT's contribution to this national agenda is realised through diploma, BTech and MTech programmes offered in the Department of IT. Through these programmes, the university contributes to the ever-increasing demand for a wide range of highly skilled information technology professionals in fields such as web applications, communication networks and software development. The department is particularly unique in the country, as it offers courses in mobile programming and games development. The department has state-of-the-art Cisco equipment through which students get hands-on experience in computer networking, which provides opportunities for various professional certification pathways.</p>						
<b>Our graduates will be able to take up jobs in:</b>						
<ul style="list-style-type: none"> <li><b>Systems analysis:</b> System developers, application designers, business analysts, information analysts, management information analysts, system analysts.</li> <li><b>Programming:</b> Application developers, games and mobile application developers, software developers, internet application developers.</li> <li><b>Database development and management:</b> Business database analysts, database administrators, database managers.</li> <li><b>Project management:</b> Information Systems (IS) project leaders.</li> </ul>						
<b>Remarks</b>						
Year 1 has year subjects as well as first and second semester subjects. The 5th character indicates if it is a year (0), semester 1 (1) or semester 2 (2) subject. In year 1 ITM105C is a year subject, PSA115C is semester 1 subject and INP125C is a second-semester subject.						

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
ALP115C			Academic Literacy and Personal Competencies
ALP125C			Academic Literacy and Personal Competencies
PSA115C			Problem Solving and Algorithms
INP125C			Internet Programming I
ITM105C			Information Technology Mathematics I
ITE105C			Information Technology Essentials I
SOD105C			Software Development I
	DBS216C		Databases II
	GID216C		Graphical Design II
	GID226C		Graphical User Interface Design II

	ITN226C		Internet Technologies II
	SOD216C		Software Development IIA
	SOD226C		Software Development IIB
	SOE226C		Software Engineering II
	TPG216C		Technical Programming IIA & IIB
	TPG226C		Technical Programming IIA & IIB
	WEB215C		Web Content Management II
		ITM316C	Information Technology and Society I
		ITN316C	Communication Networks II
		SOE316C	Software Engineering III
		SOD316C	Software Development III
		TPG216C	Technical Programming III
		WLM327C	Work Integrated Learning in Information Technology

### Qualification & Code

BACCALAUREUS TECHNOLOGIAE: INFORMATION TECHNOLOGY (SOFTWARE DEVELOPMENT) as well as (WEB AND APPLICATION DEVELOPMENT) BCBTIW / BCBTIP

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements	Selection

#### Additional Admission Requirements

##### *For candidates who matriculated in 2007 or before:*

- Appropriate M+3 qualification with an average of 65%.

##### *For candidates who completed the NSC in 2008 and thereafter:*

- National Diploma: Information Technology, with the appropriate instructional offerings and an average of 65%.

#### Career Opportunities

The world is increasingly becoming a global village, with Information and Communication Technologies (ICTs) playing a fundamental role in our day-to-day lives. South Africa, like other countries, realises that ICTs can indeed bring about positive change in its socio-economic development. CUT's contribution to this national agenda is realised through diploma, BTech and MTech programmes offered in the Department of IT. Through these programmes, the university contributes to the ever-increasing demand for a wide range of highly skilled information technology professionals in fields such as web applications, communication networks and software development. The Department is particularly unique in the country, as it offers courses in mobile programming and games development. The Department has state-of-the-art Cisco equipment through which students get hands-on experience in computer networking, which provides opportunities for various professional certification pathways.

Our graduates will be able to take up jobs in:

##### *Our graduates will be able to take up jobs in:*

- **Systems analysis:** System developers, application designers, business analysts, information analysts, management information analysts, system analysts.
- **Programming:** Application developers, games and mobile application developers, software developers, internet application developers.
- **Database development and management:** Business database analysts, database administrators, database managers.
- **Project management:** Information Systems (IS) project leaders.

#### Remarks

Instructional offerings are presented on demand, depending on the number of students enrolling for such offerings. There is a possibility that a particular instructional offering will not be presented during a specific year.

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
CMN41AB		Communication Networks IV
CSY41AB		Computer Security IV
DBS41AB		Database Systems IV
IPE41AB		Internet Programming and e-Commerce IV
NMT11AB		Research Methodology
OPG41AB		Development Software IV
ITM41AB		Information and Technology Management IV
	ACN41AB	Advanced Communication Networks IV
	ADS42AB	Advanced Development Software IV
	APE42AB	Advanced Internet Programming and e-Commerce IV
	BSL42AB	Operating Systems IV
	PIO42AB	Software Engineering and Design IV
	TPG42AB	Technical Programming IV
	USR42AB	User Interfaces Design IV
	CRA42AB	Computer Architecture IV
PRJ40AB		Project IV

## DEPARTMENT OF MATHEMATICAL AND PHYSICAL SCIENCES

**Head of Department:**

Dr HE Brink

Tel.: 051 507 3087 | Fax: 051 507 3254 | E-mail: hbrink@cut.ac.za

The Department of Mathematical and Physical Sciences is a service department, offering

- **Mathematics,**
- **Statistics** and
- **Physics** to students of the different faculties at CUT.

## DEPARTMENT OF MECHANICAL AND MECHATRONIC ENGINEERING

**Head of Department:**

Dr GG Jacobs

**Secretary:** Mrs C Tshabalala

Tel.: 051 507 3087 | Fax: 051 507 3254 | E-mail: ctshabalala@cut.ac.za

**Qualification & Code**

NATIONAL DIPLOMA: ENGINEERING: MECHANICAL

IMNDNG

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1 and 2	360	6	National Senior Certificate or equivalent qualification.	Selection

### Additional Admission Requirements

#### *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 both Mathematics and Physical Science 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 both Mathematics and Physical Science is required.

### Career Opportunities

This programme is well-suited to those with an interest in the design and operation of heavy machinery as well as production and manufacturing engineering. Mechanical engineering technicians could also work with steam plants at power stations, at vulcanising plants, pump stations and irrigation schemes, and with mining machinery and ore crushers. Manufacturing and production processes (also those used by the food and textile industries), as well as the planning, maintenance and optimisation of processes, are further facets of this field of study. The services of qualified persons are also often sought in the design of mechanical equipment. A promising future awaits qualified persons as installation engineers, technical representatives, production development engineers or works managers. They can establish their own engineering works or find employment with mines or the steel plants of Iscor, or with Eskom, PRASA, Transnet Freight Rail, consulting engineering firms, or suppliers of mechanical equipment. The motor industry is another possible employer. Opportunities also exist in the chemical processing industry (e.g. Sasol), the construction and building industry, as well as provincial government and municipal services. Emphasis is placed on entrepreneurship.

1 <sup>ST</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 1		SEMESTER 2		
January	July	January	July	
EMC11BI	EMC12BI			Communication Skills I
RPV11AI	RPV12AI			Computer and Programming Skills I
WIS11AI	WIS12AI			Mathematics I
PRE1A	PRE2B	PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
PIM5011	PIM5011			Personal Information Management
MDR11AI	MDR12AI			Mechanical Engineering Drawing I
MAN11AI	MAN12AI			Mechanical Manufacturing Engineering I
MEC11AI	MEC12AI			Mechanics I
		MEL11AI	MEL12AI	Electrotechnology I
		MFM21AI	MFM22AI	Fluid Mechanics II
		WIS21AI	WIS22AI	Mathematics II
		MEM21AI	MEM22AI	Mechanics of Machines II
		MSM21AI	MSM22AI	Strength of Materials II
		MTH21AI	MTH22AI	Thermodynamics II

2 <sup>ND</sup> YEAR				INSTRUCTIONAL OFFERINGS
SEMESTER 3		SEMESTER 4		
January	July	January	July	
MFM31BI	MFM32BI			Fluid Mechanics III
WIS31AI	WIS32AI			Mathematics III
MED21AI	MED22AI			Mechanical Engineering Design II
MEM31BI	MEM32BI			Mechanics of Machines III
MSM31BI	MSM32BI			Strength of Materials III
MTB31BI	MTB32BI			Thermodynamics III
		MSK31AI	MSK32AI	Applied Strength of Materials III
		MEL21AI	MEL22AI	Electrotechnology II

		MHM31AI	MHM32AI	Hydraulic Machines III
		MED31BI	MED32BI	Mechanical Engineering Design III
		MST31AI	MST32AI	Steam Plant III
		MTM31AI	MTM32AI	Theory of Machines III

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTERS 5 & 6		
January	July	
MEX11ZI	MEX12ZI	Work-integrated Learning I
MEX21ZI	MEX22ZI	Work-integrated Learning II

Qualification & Code						
Diploma in Engineering Technology in Mechanical Engineering						
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	2 Years	Full time	280	6	National Senior Certificate or equivalent qualification	Selection
<b>Additional Admission Requirements</b>						
<i>For admission to Diploma in Engineering Technology in Mechanical Engineering (DipEng Tech (Mechanical Engineering) at the CUT, candidates must, in addition to the general admission requirements of the CUT, meet the following minimum requirements:</i>						
<ul style="list-style-type: none"> <li>▪ Admission points score of 27</li> <li>■ NSC <ul style="list-style-type: none"> <li>▪ Minimum NSC requirements for degree studies must be met</li> <li>▪ Achievement rating of at least 4 (50-59%) for English</li> <li>▪ Achievement rating of at least 4 (50-59%) for Mathematics and Physical Sciences</li> </ul> </li> <li>■ N-Courses (FET) <ul style="list-style-type: none"> <li>▪ 60% pass in N3 Engineering Mathematics and Engineering</li> <li>▪ 50% pass in English (Grade 12 Level)</li> </ul> </li> <li>■ National Certificate Vocational (NCV) Subjects at NCV Level 4 <ul style="list-style-type: none"> <li>▪ 60% in English, Mathematics, Physical Sciences; and</li> <li>▪ 60% in any 3 of the other compulsory subjects</li> </ul> </li> </ul>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 50% on Standard Grade or 40% on Higher Grade in both Mathematics and Physical Science is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 50% in both Mathematics and Physical Science is required.</li> </ul>						
<b>Career Opportunities</b>						
<p>This programme is well-suited to those with an interest in the design and operation of heavy machinery as well as production and manufacturing engineering. Mechanical engineering technicians could also work with steam plants at power stations, at vulcanising plants, pump stations and irrigation schemes, and with mining machinery and ore crushers. Manufacturing and production processes (also those used by the food and textile industries), as well as the planning, maintenance and optimisation of processes, are further facets of this field of study. The services of qualified persons are also often sought in the design of mechanical equipment. A promising future awaits qualified persons as installation engineers, technical representatives, production development engineers or works managers. They can establish their own engineering works or find employment with mines or the steel plants of Iscor, or with Eskom, PRASA, Transnet Freight Rail, consulting engineering firms, or suppliers of mechanical equipment. The motor industry is another possible employer. Opportunities also exist in the chemical processing industry (e.g. Sasol), the construction and building industry, as well as provincial government and municipal services. Emphasis is placed on entrepreneurship. A person holding this qualification can also start his/her own business.</p>						

YEAR LEVEL	MODULE	NQF LEVEL	NQF CREDITS PER MODULE
SEMESTER 1			
1 <sup>ST</sup> YEAR	Academic Literacy and Communication Studies I	5	14
	Digital Literacy I	5	14
	Manufacturing I	5	14
	Mechanics I	5	14
	Mathematics 1	5	14
Total for Semester 1			70
SEMESTER 2			
1 <sup>ST</sup> YEAR	Materials I	5	14
	Electrical Engineering I	5	14
	Mechanics of Machines I	5	14
	Mechanical Drawing I	5	14
	Mathematics II	6	14
Total for Semester 2			70
TOTAL FOR FIRST-YEAR			140
SEMESTER 3			
2 <sup>ND</sup> YEAR	Fluid Mechanics I	6	14
	Strength of Materials I	6	14
	Thermodynamics I	6	14
	Mech Eng Design I	6	14
	Mathematics III	6	14
Total for Semester 3			70
SEMESTER 4			
2 <sup>ND</sup> YEAR	Fluid Mechanics II	6	14
	Strength of Materials II	6	14
	Thermodynamics II	6	14
	Mech Eng Design II	6	14
	Mechanics of Machines II	6	14
Total for Semester 4			70
TOTAL FOR SECOND-YEAR			140
TOTAL FOR COURSE			280

#### Qualification & Code

BACCALAUREUS TECHNOLOGIAE: ENGINEERING: MECHANICAL

IMBTMB

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1 and 2	120	7	See below: Additional Admission Requirements	Selection

#### Additional Admission Requirements

**For candidates who matriculated in 2007 or before:**

- Appropriate M-3 qualification.

**For candidates who completed the NSC in 2008 and thereafter:**

- National Diploma: Mechanical Engineering, with the appropriate instructional offerings.

### Career Opportunities

This programme is well-suited to those with an interest in the design and operation of heavy machinery, as well as production and manufacturing engineering. Mechanical engineering technologists could also work with steam plants at power stations, at vulcanising plants, pump stations and irrigation schemes, and with mining machinery and ore crushers. Manufacturing and production processes (also those used in the food and textile industries), as well as the planning, maintenance and optimisation of processes, are further facets of this field of study. The services of qualified persons are also often sought in the design of mechanical equipment. A promising future awaits qualified persons as installation engineers, technical representatives, production development engineers or works managers. They can establish their own engineering works or find employment with mines and the steel plants of Iscor, or with Eskom, PRASA, Transnet Freight Rail, consulting engineering firms, or suppliers of mechanical equipment. The motor industry is another possible employer. Other opportunities exist in the chemical processing industry (e.g. Sasol), the construction and building industry, as well as provincial government and municipal services. Emphasis is placed on entrepreneurship.

### Remarks

Mathematics III is a prerequisite for all the above-mentioned instructional offerings.

\*Compulsory instructional offerings: Engineering Design Project IV and any two of the following combinations:

Mechanics of Machines IV and Automatic Control IV or Strength of Materials IV and Stress Analysis IV or Thermodynamics IV and Refrigeration and Air Conditioning IV or Fluid Mechanics IV and Turbo Machines IV. The total credit value of a level-IV instructional offering is 1.0 credit.

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
January	July	
MAC41AI		Automatic Control IV
MSM41AI		Strength of Materials IV
MTB41AI		Thermodynamics IV
MTU41AI		Turbo Machines IV
MDP41AI	MDP42AI	*Engineering Design Project IV
	MF42AI	Fluid Mechanics IV
	MEM42AI	Mechanics of Machines IV
	MRF42AI	Refrigeration and Air Conditioning IV
	MSA42AI	Stress Analysis IV

### Qualification & Code

#### BACHELOR OF ENGINEERING TECHNOLOGY IN MECHANICAL ENGINEERING

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 Years	Semester 1 and 2	420	7	National Senior Certificate or equivalent qualification	Selection

### Additional Admission Requirements

*For admission to the Programme Bachelor of Engineering Technology in Mechanical Engineering (BEng Tech (Mechanical Engineering)) at the CUT, candidates must, in addition to the general admission requirements of the CUT, meet the following minimum requirements*

*For admission to the programme, candidates must have a total point score of 32. Moreover, the following specific requirements need to be met by candidates with different certificates.*

- For candidates who completed the NSC in 2008 and thereafter:
  - *Minimum NSC requirements for degree studies must be met*
  - *Achievement rating of at least 4 (50-59%) for English*
  - *Achievement rating of at least 5 (60-69%) for Mathematics*
  - *Achievement rating of at least 4 (50-59%) for Physical Sciences*
- N-Courses (FET)
  - *60% pass in N4 Engineering Mathematics and Engineering Science and English (Grade 12 Level)*
  - *60% in any 3 of the other related subjects*
  - *Satisfactory performance in Selection Test*
- National Certificate Vocational (NCV) Subjects at NCV Level 4
  - *60% in English, Mathematics, Physical Sciences, Life Orientation; and*
  - *60% in any 2 of the other compulsory subjects*
  - *Satisfactory performance in Selection Test*
- Higher Certificate
  - *60% average for the Higher Certificate*
  - *Candidates may apply for RPL for credits obtained in Higher Certificate*
- Diploma in Mechanical Engineering
  - *Average of 60% for diploma*

*Candidates may apply for RPL for credits obtained in Diploma*

### Career Opportunities

This programme is well-suited to those with an interest in the design and operation of heavy machinery, as well as production and manufacturing engineering. Mechanical engineering technologists could also work with steam plants at power stations, at vulcanising plants, pump stations and irrigation schemes, and with mining machinery and ore crushers. Manufacturing and production processes (also those used in the food and textile industries), as well as the planning, maintenance and optimisation of processes, are further facets of this field of study. The services of qualified persons are also often sought in the design of mechanical equipment. A promising future awaits qualified persons as installation engineers, technical representatives, production development engineers or works managers. They can establish their own engineering works or find employment with mines and the steel plants of Iscor, or with Eskom, PRASA, Transnet Freight Rail, consulting engineering firms, or suppliers of mechanical equipment. The motor industry is another possible employer. Other opportunities exist in the chemical processing industry (e.g. Sasol), the construction and building industry, as well as provincial government and municipal services. Emphasis is placed on entrepreneurship.

YEAR LEVEL	MODULE	NQF LEVEL	NQF CREDITS PER MODULE
	Semester 1		
1 <sup>ST</sup> YEAR	Academic Literacy and Communication Studies I	5	14
	Digital Literacy I	5	14
	Eng Physics I	5	14
	Manufacturing & Workshop Practice I	5	14
	Eng Mathematics 1	5	14
Total for Semester 1			70

Semester 2			
1 <sup>ST</sup> YEAR	Eng Materials I	5	14
	Thermofluids I	5	14
	Machine Mechanics I	5	14
	Eng CAD Drawing I	5	14
	Eng Mathematics II	6	14
Total for Semester 2			70
Total for Year 1			140
Semester 3			
2 <sup>ND</sup> YEAR	Eng Strength of Materials II	6	14
	Thermofluids II	6	14
	Machine Mechanics II	6	14
	Eng Design II	6	14
	Eng Mathematics III	7	14
Total for Semester 3			70
Semester 4			
2 <sup>ND</sup> YEAR	Eng Project Management	6	14
	Energy Technology III	6	14
	Machine Mechanics III	6	14
	Eng Design III	6	14
	Eng Manufacturing II	6	14
	Electrical Technology II	6	14
Total for Semester 4			70
Total for Year 1			140
Semester 5			
3 <sup>RD</sup> YEAR	Eng Strength of Materials III	7	14
	Fluid Science III	7	14
	Thermal Science III	7	14
	Eng Design Project	7	14
	Eng Manufacturing III	7	14
	Electrical Technology III	7	14
Total for Semester 5			70
Semester 6			
3 <sup>RD</sup> YEAR	Structural Analysis III	7	14
	Hydrodynamic Machines III	7	14
	Refrigeration III	7	14
	Control Systems III	7	14
	Eng Design Project	7	14
Total for Semester 6			70
Total for Year 1			140
Total for Course			420



Faculty of  
**HEALTH AND  
ENVIRONMENTAL  
SCIENCES**

## Faculty of Health and Environmental Sciences

### General

**T**he Faculty of Health and Environmental Sciences consists of four departments, the Department of Agriculture, the Department of Clinical Sciences, the Department of Health Sciences, and the Department of Life Sciences.

The faculty offers tuition in Environmental Health, Agricultural Management, and various health-related disciplines, including Clinical Technology, Radiography, Biomedical Technology, Dental Assisting, and Somatology, with specialist fields at an undergraduate and postgraduate level in most of these disciplines.

National diploma programmes extend over a three-year period. After students have obtained their national diploma qualification, they may continue with a fourth year of study to obtain the Baccalaureus Technologiae (BTech) degree, or Advanced Diploma: Agricultural Extension (for Agricultural-related disciplines). Students can then also consider enrolling for a Magister Technologiae (MTech) degree, and thereafter a Doctor Technologiae (DTech) degree. The department of Health Sciences offers a Master of Health Sciences and a Doctor of Health Sciences in Biomedical Technology, Clinical Technology and Somatology. Although students will be encouraged to register for their postgraduate studies on a full-time basis after obtaining the BTech degree, such studies can be undertaken on a part-time basis in selected fields of study.

The faculty offers attractive opportunities to students to become involved in research programmes at postgraduate level. The Centre for Health Sciences, Unit for Drug Discovery Research, the Unit for Food Safety and Technology, as well as research programmes in Agriculture and Environmental Sciences, conduct interesting research projects and render important services to the community. The faculty is involved in a variety of community projects.

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### General Enquiries

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# DEPARTMENT OF AGRICULTURE

**Acting Head of Department:**  
Prof. Carlu Van Der Westhuizen

**Secretary: Ms M Kotsi**  
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## Qualification & Code

ADVANCED DIPLOMA IN AGRICULTURAL EXTENSION

TLADAE

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1 and 2	120	7	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

- A National Diploma in Agricultural Management or an applicable three-year national diploma (classified by SAQA as an M+3 qualification) in Agriculture is a prerequisite for the Advanced Diploma in Agricultural Extension qualification.

### Career Opportunities

Obtaining an agricultural qualification offers great opportunities to graduates to work in a number of organisations (private and government sectors) as agricultural advisors, consultants, growers, farm managers, researchers, technicians, etc.

The Department of Agriculture at CUT offers a professional Advanced Diploma in Agricultural Extension. This is the first diploma of its kind to be taught at a university in the central region of South Africa. Over the years, the Department of Agriculture at CUT has earned an excellent reputation among farming communities, both in the Free State region and nationwide. This advanced diploma programme will provide immeasurable opportunities, application of scientific research protocols and new knowledge to agricultural practices through interactive farmer education services. The purpose of the qualification is to provide learners with a proper understanding and knowledge of extension and an integrated effective mix of extension skills. These build on prior graduate-level agricultural knowledge in such a way that a high degree of growth in extension skills and competence can readily take place. This qualification will, therefore, supply the agricultural industry with competent agricultural extensionists that can effectively design development programmes, conforming to the principles of participatory development with maximum community involvement and impact.

The qualifying learner will have exposure and orientation to agricultural extension programme development, will be competent to compile and manage an extension programme, and will apply their basic knowledge, skills and attitudes towards rural and agricultural development.

1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS	CREDITS
Compulsory instructional offerings		
AEE7000	Agricultural Economics for Extension	24
BCI7000	Behaviour Change and Intervention in Extension	18
APA7000	Extension and Advisory Principles and Approaches	24
LGN7000	Leadership, Group Dynamics and Networking in Extension	18
PPI7000	Project Planning, Implementation and Evaluation in Extension	
Optional instructional offerings		
APR7000	Animal Production	18
PPR7000	Plant Production	18

## Qualification & Code

NATIONAL DIPLOMA: AGRICULTURAL MANAGEMENT

TLNDLB

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
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Bloemfontein	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<i>For candidates who matriculated in 2007 or before:</i>						
■ In addition to the general admission requirements, a pass mark in Agricultural Sciences is recommended.						
<i>For candidates who completed the NSC in 2008 and thereafter:</i>						
■ In addition to the general admission requirements, a minimum mark of 40% in either Agricultural Sciences or Life Sciences, as well as a minimum mark of 50% in Mathematics, Mathematical Literacy, Economics, Accounting, Geography or Physical Science.						
<b>Career Opportunities</b>						
Farming as owner or manager; agricultural agents in stock-feed, machinery and agrochemical companies; or agricultural insurance, financing and other related fields, as well as active engagement with consultation and advisory services with the government, international companies and private agencies; urban development and resource management; land and resource management; and business opportunities in other commercial fields.						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
AMN11AT		Agricultural Management I
PPR11AT		Plant Production I
APR11AT		Animal Production I
COM11AT		Computer Skills I
SSC11AT		Agricultural Soil Science I
PAS11AT		Pasture Science I
PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)
	AMN22AT	Agricultural Management II
	PPR22AT	Plant Production II
	APR22AT	Animal Production II
	CAP22AT	Computer Applications (Agriculture) II
	SCL22AT	Soil Classification II
	PRD12AT	Production and Operational Techniques I

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
LBB21ZT	LBB22ZT	Work-integrated Learning: Agricultural Management
APM20AT		Agricultural Production Management II
APT20AT		Agricultural Production Techniques II

3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings	
AMN30AT	Agricultural Management III
ENG10AT	Agricultural Engineering I
PBL10AT	Personnel Management: Agriculture I
ALW10AT	Agricultural Law I
Optional instructional offerings	
PPR30AT	*Plant Production III
APR30AT	*Animal Production III
*Optional instructional offerings.	

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: AGRICULTURAL MANAGEMENT						TLBTLA
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>National Diploma: Agricultural Management or equivalent qualification.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>National Diploma: Agricultural Management, or equivalent qualification, with the appropriate instructional offerings.</li> </ul>						
<b>Career Opportunities</b>						
Farming as owner or manager; buying and selling of agricultural products; agricultural industries such as stock-feed, machinery and agrochemical companies; agricultural insurance, financing and other related fields; consultation and advisory positions with the government, international companies and private agencies; urban development and resource management; land and resource management; and business opportunities in other commercial fields, whether related or unrelated to agriculture.						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings	
FIN40AT	Financial Management: Agriculture IV
STG40AT	Strategic Management: Agriculture IV
LEA20AT	Leadership Development II
Optional instructional offerings	
ANI40AT	*Animal Production IV
PLT40AT	*Plant Production IV
*Optional instructional offerings.	

DEPARTMENT OF CLINICAL SCIENCES	
<b>Head of Department:</b> Prof. H Friedrich-Nel	Tel.: 051 507 3166   Fax: 051 507 3278   E-mail: mmolefi@cut.ac.za

Qualification & Code						
BACHELOR OF RADIOGRAPHY IN DIAGNOSTICS						HXNDEA
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	4 year full-time	Semester 1	480	8	National Senior Certificate or equivalent qualification 30 points on the M scale.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>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.</li> </ul>						
<b>For candidates who completed NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in Life Sciences, Physical Science and Mathematics, is required.</li> </ul>						

### Career Opportunities

Graduation with this qualification will allow employment as a diagnostic radiographer in a government- or private radiology practice; the educational sector and medical imaging companies as a sales representative. Radiographers registered with the Health Professional Council of South Africa (HPCSA) are allowed to open their own private practice after two years of independent practice as a qualified diagnostic radiographer.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	4 <sup>th</sup> YEAR	INSTRUCTIONAL OFFERINGS
ANA5000				Anatomy & Physiology I
STF5000				Radiation Physics I
PTH5022				Pathology I
PCM5011				Patient Care- and Management I
RDP5000				Radiographic Procedures I
RCP5000				Research Principles I
LCS5001				Academic Literacy & Communication Studies
DLC5011				Digital Literacy
ADC5022				Advanced Academic Literacy
PIM5011				Personal Information Management
	ANR6000			Anatomy & Pattern Recognition II
	STF6000			Radiation Physics II
	PTH6000			Pathology II
	PCM6000			Patient Care- and Management II
	RAD6000			Radiographic Practice II
	RDP6000			Radiographic Procedures II
	RCP6000			Research Principles II
	IMT6000			Imaging Technology II
		SPR7000		Sectional Anatomy & Pattern Recognition III
		STF7000		Radiation Physics III
		PTH7000		Pathology III
		PCM7000		Patient Care- and Management III
		RAD7000		Radiographic Practice III
		RDP7000		Radiographic Procedures III
		RCP7000		Research Principles III
		IMT7000		Imaging Technology III
			SPR8000	Sectional Anatomy & Pattern Recognition IV
			STF8000	Radiation Physics IV
			PCM8000	Patient Care- and Management IV
			RAD8000	Radiographic Practice IV
			RDP8000	Radiographic Procedures IV
			RCP8000	Research Principles IV
			PRF8000	Professional Practice of Radiography IV
			Electives semester I	
			PRP8011	Project Management Process IV
			CNP8011	Microbiology and cannulisation IV
			Electives semester II	
			CNP8011	Person Centred Care IV
			PRE8022	Entrepreneurship IV

# DEPARTMENT OF HEALTH SCIENCES

**Head of Department:**

**Secretary:** Mrs L van den Berg

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## Qualification & Code

DIPLOMA: BIOMEDICAL TECHNOLOGY

DBIOMT

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	361	6	National Senior Certificate or equivalent qualification.	Selection

### Additional Admission Requirements

#### *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 Sciences, Physical Sciences and Mathematics is required.

### Career Opportunities

Qualified Biomedical Technologists are employed in private pathology practices, South African National Blood Service (SANBS), National Health Laboratory Service (NHLS), Medical Research Council (MRC) and other disciplines such as pharmaceutical companies. Opportunities also exist to become involved in research and training at universities. A qualified Biomedical Technologist can also run his/her own diagnostic pathology laboratory.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
ANF11BT			Anatomy and Physiology I
IGT11AT			Introduction to Medical Technology
CHB11CT			Chemistry I
BST11AT			Calculations and Statistics
FSK11BT			Physics I
ANF12BT			Anatomy and Physiology I
PIM5011			Personal Information Management
PRE1A (Sem 1)			English Proficiency (Semester 1) and
PRE2B (Sem 2)			English Proficiency (Semester 2)
PFS22AT			Pathophysiology II
BCH22AT			Biochemistry II
IMM22BT			Immunology II
BTC12AT			Computer Skills I
	MKB11AT		Microbiology I
	BLD21AT		Blood Transfusion Technology
	CHP11AT		Chemical Pathology I
	SLP11AT		Cellular Pathology I
	MKB22BT		Microbiology II
	HEM22BT		Haematology II
	CHP22BT		Chemical Pathology II
	SLP22AT		Cellular Pathology II
		MKB31BT	Microbiology III

		HEM31BT	Haematology III
		CHP31BT	Chemical Pathology III
		SLP31AT	Cellular Pathology III
		LAB31BT / LAB32BT	Laboratory Practice (Work Integrated Learning)

Qualification & Code						
DIPLOMA: CLINICAL TECHNOLOGY						DCLINT
Campus	Duration of Programme	Enrolment Option(s)	SAGA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection
<p><b>Additional Admission Requirements</b></p> <p><i>For candidates who matriculated in 2007 or before:</i></p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p><i>For candidates who completed the NSC in 2008 and thereafter:</i></p> <ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in Life Sciences, Physical Sciences, Mathematics and English, is required.</li> <li>In addition to the requirements above, students are subject to a selection process.</li> </ul> <p><b>Career Opportunities</b></p> <p>Qualified Clinical Technologists are employed in a government- or private practice selecting one of the seven specialization areas: Cardiology, pulmonology, critical care, nephrology, reproductive biology, perfusion, neurophysiology.</p>						

1ST YEAR	2ND YEAR	INSTRUCTIONAL OFFERINGS
ANA10AT		Anatomy I
FSL10AT		Physiology I
FSK11BT		Physics I
CHB11CT		Chemistry I
BST11AT		Calculations and Statistics I
PSI12AT		Psychodynamics I
PRE1A (Sem 1)		English Proficiency (Semester 1) and English Proficiency (Semester 2)
PRE2B (Sem 2)		
PIM5011		Personal Information Management
	AFI20CT	Anatomy and Physiology II
	RTP12AT	Computer Application I
	BAP20AT	Biomedical Apparatus and Procedures I
	OSP20AT	Organ and System Pathophysiology II
	FAR20AT	Pharmacology II

3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
Any ONE (1) of the seven (7) options below. Refer to compulsory instructional offerings.	
TPC30AT	WIL Cardiology: Clinical Technology Practice III
BMK30CT	WIL Cardiology: Biomedical Apparatus III
CNK30BT	WIL Cardiology: Clinical Practice III
TPH30AT	WIL Nephrology: Clinical Technology Practice III
BMN30CT	WIL Nephrology: Biomedical Apparatus III
CNN30BT	WIL Nephrology: Clinical Practice III
TPN30AT	WIL Neurophysiology: Clinical Technology Practice III
BME30CT	WIL Neurophysiology: Biomedical Apparatus III
CNO30BT	WIL Neurophysiology: Clinical Practice III
TPU30AT	WIL Pulmonology: Clinical Technology Practice III
BMP30CT	WIL Pulmonology: Biomedical Apparatus III
CNP30BT	WIL Pulmonology: Clinical Practice III
TPK30AT	WIL Critical Care: Clinical Technology Practice III
BAM30BT	WIL Critical Care: Biomedical Apparatus III
KPK30BT	WIL Critical Care: Clinical Practice III
TPT30AT	WIL Reproductive Biology: Clinical Technology Practice III
BIR30BT	WIL Reproductive Biology: Biomedical Apparatus III
KPR30BT	WIL Reproductive Biology: Clinical Practice III
PTP30AT	WIL Perfusion: Clinical Technology Practice III
PBA30BT	WIL Perfusion: Biomedical Apparatus III
CNF30BT	WIL Perfusion: Clinical Practice III
WIL = Work-Integrated Learning	

### Qualification & Code

NATIONAL DIPLOMA: SOMATOLOGY

THNDGI

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection

#### Additional Admission Requirements

**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 Sciences or Physical Science is required.

**A minimum of 27 points on CUT scoring scale for the National Senior Certificate.**

#### Career Opportunities

Somatologists find a wealth of opportunities within this diverse industry, both nationally and internationally. Positions are found within Skin and Health Care Clinics; Private Practices, Medical Centres, Health Spas, Product Company Sales Representatives and Trainers; Cruise Liners and Airlines.

**Remarks**

Students can obtain an internationally recognised CIDESCO diploma at the end of their third year of study.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	INSTRUCTIONAL OFFERINGS
SOM10AT		Soma Techniques I (main instructional offering)
SMT10AT		Soma Techniques I (Theory) (module instructional offering)
SFT10AT		Soma Techniques I (Theory): Facials
SPT10AT		Soma Techniques I (Theory): Manicures
SMP10AT		Soma Techniques I (Practical) (module instructional offering)
SFP10AT		Soma Techniques I (Practical): Facials
SPP10AT		Soma Techniques I (Practical): Manicures
SXP10AT		Soma Techniques I (Practical): Wax
SWP10AT		Soma Techniques I (Practical): Swedish Massage
SMR12AT		Computer Skills I (module instructional offering)
EST10BT		Aesthetics I (Theory and Practical)
BTK10AT		Biotics I (Theory)
WSP10AT		Science I (Theory and Practical)
AFI10CT		Anatomy and Physiology I
CCS10AT		Communication Skills I
VDN10AT		Nutrition I
PRE1A		English Proficiency and
PRE2B		English Proficiency
	SOM20AT	Soma Techniques II (main instructional offering)
	SMT20AT	Soma Techniques II (Theory) (module instructional offering)
	SFT20AT	Soma Techniques II (Theory): Facials
	SST20AT	Soma Techniques II (Theory): Slimming
	SDT20AT	Soma Techniques II (Theory): Diathermy
	SAT20AT	Soma Techniques II (Theory): Aromatherapy
	SRT20AT	Soma Techniques II (Theory): Reflexology
	SLT20AT	Soma Techniques II (Theory): Manual Lymph Drainage
	SMP20AT	Soma Techniques II (Practical) (module instructional offering)
	SFP20AT	Soma Techniques II (Practical): Facials
	SSP20AT	Soma Techniques II (Practical): Slimming
	SDP20AT	Soma Techniques II (Practical): Diathermy
	SAP20AT	Soma Techniques II (Practical): Aromatherapy
	SRP20AT	Soma Techniques II (Practical): Reflexology
	SLP20AT	Soma Techniques II (Practical): Manual Lymph Drainage
	BTK20AT	Biotics II (Theory)
	WSP20AT	Science II (Theory and Practical)
	AFG20BT	Anatomy and Physiology II
	SAK10BB	Business Practice I
	SSK10AT	Socio-Psychology I
	VDN20AT	Nutrition II

3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
SOM30AT	Soma Techniques III (main instructional offering)
SMT30AT	Soma Techniques III (Theory) (module instructional offering)
SFT30AT	Soma Techniques III (Theory): Facials
SST30AT	Soma Techniques III (Theory): Slimming
SIT30AT	Soma Techniques III (Theory): IPL
SAT30AT	Soma Techniques III (Theory): Aromatherapy
SRT30AT	Soma Techniques III (Theory): Reflexology
SCT30AT	Soma Techniques III (Theory): Aromatherapy Chemistry
SMP30AT	Soma Techniques III (Practical) (module instructional offering)
SFP30AT	Soma Techniques III (Practical): Facials
SSP30AT	Soma Techniques III (Practical): Slimming
SIP30AT	Soma Techniques III (Practical): IPL
SAP30AT	Soma Techniques III (Practical): Aromatherapy
SRT30AT	Soma Techniques III (Practical): Reflexology
BTK30AT	Biotics III (Theory)
SSK20AT	Socio-Psychology II
VDN30AT	Nutrition III
SAK20AB	Business Practice II
BWS30AT	Applied Biological Sciences III
SOP20AT	Soma Techniques Project II

#### Qualification & Code

DIPLOMA: SOMATOLOGY

DP\_SOM

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection

#### Additional Admission Requirements

**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 Sciences or Physical Science is required.

**A minimum of 27 points on CUT scoring scale for the National Senior Certificate.**

#### Career Opportunities

Somatologists find a wealth of opportunities within this diverse industry, both nationally and internationally. Positions are found within Skin and Health Care Clinics; Private Practices, Medical Centres, Health Spas, Product Company Sales Representatives and Trainers; Cruise Liners and Airlines.

#### Remarks

Students can obtain an internationally recognised CIDESCO diploma at the end of their third year of study.

#### 1<sup>ST</sup> YEAR

SEMESTER 1	SEMESTER 2	INSTRUCTIONAL OFFERINGS
LCS5011	LCS5012	Academic Literacy and Communication Studies

AEP115E	AEP125E	Aesthetic Practices I
ANP115E	ANP125E	Anatomy & Physiology I
DLC5011		Basic Digital Literacy
BUS115E		Business Management I
HYG115E	HYG125E	Microbial Hygiene I
	NMR5012	Numeracy
SCI115E	SCI125E	Science I
SOB115E	SOB125E	Somatic Therapy Body I
SOF115E	SOF125E	Somatic Therapy Face I
PIM5011		Personal Information Management
<b>2<sup>nd</sup> YEAR</b>		
AEP216E	AEP226E	Aesthetic Practices II
ANP216E	ANP226E	Anatomy & Physiology II
BUS216E	BUS226E	Business Management II
CAR216E	CAR226E	Complimentary Therapies I
SCI216E	SCI226E	Science II
SOB216E	SOB226E	Somatic Therapy Body II
SOF216E	SOF226E	Somatic Therapy Face II
SOP116E	SOP126E	Socio-psychology I
SOM116W	SOM126W	Somatology Work-integrated Learning I
<b>3<sup>rd</sup> YEAR</b>		
AEP316E	AEP326E	Aesthetic Practices III
BPH116E	BPH126E	Basic Pharmacology I
BUS316E	BUS326E	Business Management III
CAR316E	CAR326E	Complimentary Therapies II
SOB316E	SOB326E	Somatic Therapy Body III
SOF316E	SOF326E	Somatic Therapy Face III
SOM216W	SOM226W	Somatology Work-integrated Learning II

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: BIOMEDICAL TECHNOLOGY						TABTBH
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<i>For candidates who matriculated in 2007 or before:</i>						
<ul style="list-style-type: none"> <li>■ National Diploma: Biomedical Technology or equivalent qualification.</li> </ul>						
<i>For candidates who completed the NSC in 2008 and thereafter:</i>						
<ul style="list-style-type: none"> <li>■ National Diploma: Biomedical Technology, or equivalent qualification, with the appropriate instructional offerings.</li> </ul>						
<b>Career Opportunities</b>						
<p>Qualified Biomedical Technologists are employed in private pathology practices, South African National Blood Service (SANBS), National Health Laboratory Service (NHLS), Medical Research Council (MRC) and other disciplines such as pharmaceutical companies. Opportunities also exist to become involved in research and training at universities. A registered Biomedical Technologist can also run his/her own diagnostic pathology laboratory.</p>						

**Remarks**

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.

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
LMN21AT	Laboratory Management or
LMN22AT	Laboratory Management
NMT21BT	Research Methods and Techniques and
NMT22BT	Research Methods and Techniques
IPT40AT	Integrated Pathophysiology IV
BCH40AT	Biochemistry IV
PJT40AT	Project

**Qualification & Code**

BACCALAUREUS TECHNOLOGIAE: CLINICAL TECHNOLOGY

TABTNI

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection and interview

**Additional Admission Requirements**

**For candidates who matriculated in 2007 or before:**

- National Diploma: Clinical Technology, or equivalent qualification.

**For candidates who completed the NSC in 2008 and thereafter:**

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

**Career Opportunities**

Qualified Clinical Technologists are employed in a government- or private practice selecting one of the seven specialisation areas: Cardiology, pulmonology, critical care, nephrology, reproductive biology, perfusion, neurophysiology. Clinical Technologists registered with the Health Professional Council of South Africa (HPCSA) are allowed to open their own private practices.

**Remarks**

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.

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings	
BGS11AT	Principles of Management I or
BGS12AT	Principles of Management I
NMT21CT	Research Methodology: Natural Sciences and
NMT22CT	Research Methodology: Natural Sciences
Optional instructional offerings	
One of the following instructional offerings corresponding with the third-year choice:	
KAR40AT	WIL Cardiology IV (Main instructional offering)
KDP40AT	Cardiology IV Project (Module instructional offering)
KDT40AT	Cardiology IV Theory/Practical (Module instructional offering)

KRI40AT	WIL Critical Care IV (Main instructional offering)
KIT40AT	Critical Care IV (Module instructional offering)
KIP40AT	Critical Care IV Theory/Practical (Module instructional offering)
NEF40AT	WIL Nephrology IV (Main instructional offering)
NFP40AT	Nephrology IV (Module instructional offering)
NFT40AT	Nephrology IV Theory/Practical (Module instructional offering)
NEU40AT	WIL Neurophysiology IV (Main instructional offering)
NGP40AT	Neurophysiology IV (Module instructional offering)
NGT40AT	Neurophysiology IV Theory/Practical (Module instructional offering)
PER40AT	WIL Perfusion IV (Main instructional offering)
RFP40AT	Perfusion IV (Module instructional offering)
RFT40AT	Perfusion IV Theory/Practical (Module instructional offering)
REP40AT	WIL Reproductive Biology IV (Main instructional offering)
RBP40AT	Reproductive Biology IV (Module instructional offering)
RBT40AT	Reproductive Biology IV Theory/Practical (Module instructional offering)
PUL40AT	WIL Pulmonology IV (Main instructional offering)
PYP40AT	Pulmonology IV (Module instructional offering)
PYT40AT	Pulmonology IV Theory/Practical (Module instructional offering)
WIL = Work-Integrated Learning	

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: SOMATOLOGY						THBTLO
Campus	Duration of Programme	Enrolment Option(s)	SAGA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<i>For candidates who matriculated in 2007 or before:</i>						
<ul style="list-style-type: none"> <li>■ National Diploma: Somatology or equivalent qualification, with an average of 60% on the theory component. or</li> <li>■ National Diploma: Somatology or equivalent qualification. With an average below 60% on the theory component plus additional two (2) years Industry experience.</li> </ul>						
<i>For candidates who completed the NSC in 2008 and thereafter:</i>						
<ul style="list-style-type: none"> <li>■ National Diploma: Somatology, or equivalent qualification, with the appropriate instructional offerings. With an average of 60% on the theory component. or</li> <li>■ National Diploma: Somatology or equivalent qualification, with an average below 60% on the theory component plus additional Two (2) years Industry experience.</li> </ul>						
<b>Career Opportunities</b>						
In addition to the career opportunities of a Diploma holder, the B Tech graduate will possess entrepreneurial skills to open or manage their own business in the industry and work in conjunction with Medical Practitioners.						
<b>Remarks</b>						
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.						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings	
SOM40AT	Soma Techniques IV (main instructional offering)
SMT40AT	Soma Techniques IV (Theory) (module instructional offering)
SMP40AT	Soma Techniques IV (Practical) (module instructional offering)
NMT20CT	Research Methodology: Natural Sciences
SPJ40AT	Somatology Project IV
BTK40AT	Biotics IV
VDG40AT	Nutrition IV

## DEPARTMENT OF LIFE SCIENCES

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### Qualification & Code

NATIONAL DIPLOMA: ENVIRONMENTAL HEALTH THNDEV

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection

#### Additional Admission Requirements

##### *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 Sciences and Physical Science, as well as a minimum mark of 40% in Mathematics, or a minimum mark of 50% in Mathematical Literacy, is required.

#### Career Opportunities

Popular employers are municipalities, as well as government departments such as Health, Water Affairs and Forestry, Environmental Affairs and Tourism, and Labour, as well as industries such as mining groups, Eskom, Transnet, water boards, large food manufacturers and retailers, abattoirs, and some hotel groups. Qualified persons may also render services in a private capacity to abattoirs for a professional fee. The Department of Agriculture also employs veterinary health officers.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
ANF10AT			Anatomy and Physiology I
FEC10AT			Physics and Chemistry I
GMO10AT			Community Development I
MBO10BT			Microbiology I
OMB10AT			Environmental Planning I
PRE1A (Sem 1)			English Proficiency (Semester 1) and
PRE2B (Sem 2)			English Proficiency (Semester 2)
PIM5011			Personal Information Management
	BGV20AT		Occupational Health and Safety II
	EPI20AT		Epidemiology II

	GMO20AT		Community Development II
	OAW20AT		Environmental Pollution: Waste and Water II
	VVH20AT		Food and Meat Hygiene II
		BGV30AT	Occupational Health and Safety III
		FBS30AT	Management Practice III
		EPI30AT	Epidemiology III
		OLG30AT	Environmental Pollution: Air and Noise III
		VVH30AT	Food and Meat Hygiene III

Qualification & Code						
HIGHER CERTIFICATE: DENTAL ASSISTING						HLHCDL
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time 2 years part-time	Semester 1	141	5	National Senior Certificate or equivalent qualification.	Selection
<p><b>Additional Admission Requirements</b></p> <p><b>For candidates who matriculated in 2007 or before:</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p><b>For candidates who completed the NSC in 2008 and thereafter:</b></p> <ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 50% in Life Sciences is required.</li> </ul>						
<p><b>Minimum requirements</b></p> <ul style="list-style-type: none"> <li>The minimum requirements for enrolment are an FETC with six 20-credit-bearing subjects with a rating of four, and a minimum rating of 1 (one) for Life Orientation (thus a total credit value of at least 25).</li> <li>Aptitude test if the candidate 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 1 (one) for Life Orientation (thus a total credit value of at least 23).</li> <li>English as a language subject (home or additional) with a minimum rating of three.</li> </ul> <p><b>In addition to the above:</b></p> <ul style="list-style-type: none"> <li>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 1 for Life Orientation at level three.</li> <li>A candidate who fails one or more instructional offerings must reapply for admission.</li> <li>Applicants in possession of the National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.</li> <li>No student will be allowed to graduate without completing the Academic Literacy programme.</li> <li>It is compulsory for candidates who wish to enrol for the part-time programme to be employed by an oral health care facility as a dental assistant.</li> </ul>						
<p><b>Career Opportunities</b></p> <p>Be a qualified, professional Dental Assistant or Practice Manager to oral health care providers, as well as oral health care facilities. Other opportunities include suppliers of dental services and products who also offer career opportunities in South Africa and abroad.</p>						

## 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 Director of the School of Health Technology immediately.

After successful completion of this course, a Higher Certificate will be awarded during the official graduation ceremony of the CUT.

1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS	Credits
TPB5000	Dental Practice Management I	24
MAP5000	Oral Anatomy & Pathology I	24
TAP5000	Dental Assisting: Practical I	24
TAT5000	Dental Assisting: Theory I	24
THE5011	Dental Practice: Work-Integrated Learning	36
LCS5001	Academic Literacy and Communication Studies	9
PIM5011	Personal Information Management	
	Total credits	141

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	INSTRUCTIONAL OFFERINGS	Credits
TPB5000		Dental Practice Management I	24
MAP5000		Oral Anatomy & Pathology I	24
LCS5001		Academic Literacy and Communication Studies	9
PIM5011		Personal Information Management	
	TAP5000	Dental Assisting: Practical I	24
	TAT5000	Dental Assisting: Theory I	24
	THE5011	Dental Practice: Work-Integrated Learning	36

## Qualification & Code

BACCALAUREUS TECHNOLOGIAE: ENVIRONMENTAL HEALTH

THBTEM

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

**For candidates who matriculated in 2007 or before:**

- National Diploma: Environmental Health, or equivalent qualification, with a minimum average mark of 60% for the qualification, or at least 60% for the pre-requisite main module.

**For candidates who completed the NSC in 2008 and thereafter:**

- National Diploma: Environmental Health, or equivalent qualification, with the appropriate instructional offerings, with a minimum average mark of 60% for the qualification, or at least 60% for the pre-requisite main module.

### Career Opportunities

Popular employers are municipalities, as well as government departments such as Health, Labour, Water Affairs and Forestry, and Environmental Affairs and Tourism, as well as industries such as mining groups, Eskom, Transnet, water boards, large food manufacturers and retailers, abattoirs, and some hotel groups. Qualified persons may also render services in a private capacity to abattoirs for a professional fee. The Department of Agriculture also employs veterinary health officers.

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings	
NMD10AT	Research Methodology I
FBS40AT	Management Practice IV
Optional instructional offerings	
Plus any two of the following:	
VDH40BT	Food Hygiene IV
BGV40AT	Occupational Health and Safety IV
WAT40AT	Water Quality Management IV
EPY40AT	**Environmental Epidemiology IV
AFV40AT	Waste Management IV
VHG40AT	*Meat Hygiene IV
LUG40AT	*Air Pollution IV
Candidates will be selected for the optional instructional offerings, since only limited space is available.	

Faculty of  
**HUMANITIES**

### GENERAL

**T**he Faculty of Humanities consists of six Departments, namely the Department of Communication Sciences, the Department of Design and Studio Art, the Department of Postgraduate Studies Education, Department of Educational and Professional Studies, Department of Mathematics, Science and Technology Education, and Department of Language and Social Sciences Education.

### Qualification Structure

The National Diploma is a three-year, full-time, career-oriented qualification. After obtaining the National Diploma qualification, a student may continue with a fourth year of study to obtain the Baccalaureus Technologiae (BTech) degree, before proceeding with Magister Technologiae (MTech) and Doctor Technologiae (DTech) studies.

For Teacher Education, the initial qualification is the four-year \*Baccalaureus Educationis (BEd) Senior Phase (SP) & Further Education and Training (FET) Specialisation programme followed by the BEd (Honours) Degree programme, which can be completed within one year on a full-time basis or within two years on a part-time basis. Students also have the opportunity to enrol for the Master of Education (MEd) and Doctor of Education (DEd) programmes. Another programme offered in Teacher Education is the Postgraduate Certificate in Education (PGCE).

\*The admission requirements for the BEd degree are as follows: Admission to a Bachelor's degree for candidates who completed Grade 12 after 2007, and matriculation with an exemption for candidates who completed Grade 12 before 2007.

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# DEPARTMENT OF COMMUNICATION SCIENCES

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## Qualification & Code

NATIONAL DIPLOMA: LANGUAGE PRACTICE

SSNDTL

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection

### Additional Admission Requirements

#### *For candidates who matriculated in 2007 or before:*

- In addition to the general admission requirements, a minimum mark of 60% on Higher Grade in any **two** official regional languages is required.

#### *For candidates who completed the NSC in 2008 and thereafter:*

- In addition to the general admission requirements, a minimum mark of 60% in any **two** official regional languages is required.

### Career Opportunities

Language Practitioner; Training Officer; Copywriter; Administrative Officer; Translator; Communications Officer; Technical Writer; Public Relations Officer; Journalist; Conference Organiser.

### Remark

This learning programme is to be replaced by the Diploma in Language Practice and Media Studies

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
TDN10AS			Language Dynamics I
TVP10AS			Language and Translation Practice I
CPU10BS			Computer Usage I
INT10AS			Intercultural Studies I
LAE10AS			English I
LAA10AS			Afrikaans I or
SOT10AS			Sesotho I or
GER10AS			German I or
FCH10AS			French I or
XHS10AS			isiXhosa I or
TSW10AS			Setswana I
PRE1A (Sem 1)			English Proficiency (Semester 1) and
PRE2B (Sem 2)			English Proficiency (Semester 2)
	TDN20AS		Language Dynamics II
	TVP20AS		Language & Translation Practice II
	CPU20BS		Computer Usage II
	LAE20AS		English II

	LAA20AS		Afrikaans II or
	SOT20AS		Sesotho II or
	GER20AS		German II or
	FCH20AS		French II or
	XHS20AS		isiXhosa II or
	TSW20AS		Setswana II or
	ZUL20AB		IsiZulu II
	VID10AS		Video: Theory and Practice I
1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
		TDN30AS	Language Dynamics III
		TVP30AS	Language and Translation Practice III
		OPR11AS	Public Speaking I
		LAE30AS	English III
And one or more of the following:			
		SAD10AS	Business Administration I or
		LAA30AS	Afrikaans III or
		SOT30AS	Sesotho III or
		GER30AS	German III or
		FCH30AS	French III or
		XHS30AS	isiXhosa III or
		TSW30AS	Setswana III or
		ZUL30AB	isiZulu III

*The National Diploma in Language Practice will be replaced by the Diploma in Language Practice and Media Studies in 2017.*

Qualification & Code						
NATIONAL DIPLOMA: LANGUAGE PRACTICE AND MEDIA STUDIES						SSNDTL
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 years	Semester 1	360	6	National Senior Certificate or equivalent qualification.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 60% on higher grade in any two official regional languages is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a minimum mark of 60% in any two official regional languages is required.</li> </ul>						
<b>Career Opportunities</b>						
Language Practitioner; Training Officer; Copywriter; Administrative Officer; Translator; Communications Officer; Technical Writer; Public Relations Officer; Journalist; Conference Organiser.						

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
MS10AS			Media Studies I
TVP10AS			Language & Translation Practice I

CPU10BS			Computer Usage I
INT10AS			Intercultural Studies I
LAE10AS			English I
LAA10AS			Afrikaans I or
SOT10AS			Sesotho I or
GER10AS			German I or
FCH10AS			French I or
XHS10AS			isiXhosa I or
TSW10AS			Setswana I
LCS5001			Academic Literacy and Communication Studies
DGI5001			Digital Literacy
NMR5011			Numeracy
PIM5011			Success Skills
	MS20AS		Media Studies
	TVP20AS		Language & Translation Practice II
	CPU20BS		Computer Usage II
	LAE20AS		English II
	LAA20AS		Afrikaans II or
	SOT20AS		Sesotho II or
	GER20AS		German II or
	FCH20AS		French II or
	XHS20AS		isiXhosa II or
	TSW20AS		Setswana II
	VID10AS		Video: Theory & Practice I
		MS30AS	Media Studies III
		TVP30AS	Language & Translation Practice III
		OPR10AS	Public Speaking I
		LAE30AS	English III
		WIL	Work -integrated Learning
		SAD10AS	Business Administration I or
		LAA30AS	Afrikaans III or
		SOT30AS	Sesotho III or
		GER30AS	German III or
		FCH30AS	French III or
		XHS30AS	isiXhosa III or
		TSW30AS	Setswana III

### Qualification & Code

BACCALAUREUS TECHNOLOGIAE: LANGUAGE PRACTICE

SSBTTK

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

**For candidates who matriculated in 2007 or before:**

- Appropriate M+3 qualification.

**For candidates who completed the NSC in 2008 and thereafter:**

- National Diploma: Language Practice, with the appropriate instructional offerings and average of 60% is required.

### Career Opportunities

Language Practitioner; Training Officer; Copywriter; Administrative Officer; Translator; Communications Officer; Technical Writer; Public Relations Officer; Journalist; Conference Organiser.

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings:	
TDN40AS	Language Dynamics IV
TVP40AS	Language and Translation Practice IV
RTL10AS	Marketing and Advertising Language I
NMT10AS	Research Methods and Techniques I
And one or more of the following:	
CPU30AS	Computer Usage III or
LAA40AS	Afrikaans IV (Language X) or
LAE40AS	English IV (Language X) or
SOT40AS	Sesotho IV or
GER40AS	German IV or
FCH40AS	French IV or
XHS40AS	isiXhosa IV or
TSW40AS	Setswana IV or
ZUL40AS	isiZulu IV

## DEPARTMENT OF DESIGN AND STUDIO ART

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**Secretary: Ms P Moathodi**  
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### Qualification & Code

DIPLOMA: DESIGN AND STUDIO ART						HADPSA
Campus	Duration of Programme	Enrolment Option(s)	SAGA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	366	6	See below: Additional Admission Requirements.	Selection and interview

### Additional Admission Requirements

**For candidates who matriculated in 2007 or before:**

- National Senior Certificate or equivalent qualification.

**For candidates who completed the NSC in 2008 and thereafter:**

- In addition to the general admission requirements, candidates must submit a portfolio of their work. Visual Art is recommended.

### Career Opportunities

Visual Arts; fashion; advertising; communications; packaging; jewellery; illustration and multi-media.

## Remarks

In addition to the general CUT admission criteria, the aforementioned department requests applicants to undergo additional procedures before final selection and acceptance can proceed.

The information presented below is the criteria that the Department of Design and Studio Art uses to select and admit students for the purpose of studying towards the Diploma in Design and Studio Art. Carefully read through these guidelines and feel free to contact the Department if you have any questions.

1. All prospective students must apply for admission in accordance with the Policies and Procedures.
2. In addition to the general admission requirements of the CUT, candidates will be subjected to a selection process specifically designed and set for admission to the Diploma offered in the Department of Design and Studio Art.
3. All candidates will furthermore be placed on a waiting list until they have completed an assessment test. The assessment test will involve the following:
  - the submission of a portfolio that has been designed to test candidates' drawing ability, imagination, sensitivity to colour and proportion, design skills and general ability to communicate on a visual level;
  - a personal interview;
  - an assessment of practical skills to be completed by the candidate; and
  - an M Score of 27 points or higher.

All candidates will be notified personally by the Department concerning the outcome of their application.

1. Candidates not meeting the requirement stipulated in par. 3(d) above may be requested to complete psychometric tests to determine their potential. These tests will be conducted on the CUT campus in Bloemfontein.
2. In cases where candidates' applications have been unsuccessful, they can decide on one of the following options:
3. Application for admittance to the Extended Curriculum Programme of Design and Studio Art.
4. Application for admission at the Motheo College or any other college where N3 and N4 courses are offered in art and design. After successful completion of these courses at any of these colleges, candidates should in most cases be competent to be admitted to their first year of study.

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
LCS5001			Academic Literacy and Communication Studies
NMR5011			Numeracy
DLC5011			Basic Digital Literacy
ADC5022			Digital Literacy
PIM5011			Personal Information Management
VCU5001			Visual Culture
DRG5001			Drawing
PFP5001			Professional Practice
DGI5001			Digital Imaging
DDS5001			2D and 3D Design
	VSU6002		Visual Culture
	PFP6002		Professional Practice
	MMS5001		Management Studies
	DRG6002		Drawing
	DSA5022		Work Integrated learning
	SDP6001		Studio Practice
		VSU7003	Visual Culture
		PFP7003	Professional Practice
		DSA6023	Work Integrated Learning
		MMS6002	Management Studies
		SDP7002	Studio Practice

Qualification & Code						
ADVANCED DIPLOMA: STUDIO ART						KBBTAR
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	N/A
<b>Additional Admission Requirements</b>						
<i>Access to the Advanced Diploma in Design and Studio Art qualification is open to learners in possession of a Diploma in Design and Studio Art or equivalent qualification.</i>						
<b>Career Opportunities</b>						
<p>Graduates from the Advanced Diploma in Studio Art stream of study, will gain exposure to skills with the aim to make them creative practitioners (whether in fashion, photography, digital or communication design or visual arts practice), with the requisite professional and business/entrepreneurship/collaborative practice skills so critically needed which will enable them to manage the business side of their creative careers. They will also gain training in research methodology and conceptual development that will position them for further study opportunities.</p>						
<b>Remarks</b>						
<p>The Advanced Diploma in Studio Art is designed in a manner which encourages a broad conceptual understanding of design and studio arts, which can be flexibly applied across a range of different creative media, as well as ensuring that graduates have solid professional practice skills to equip them to apply themselves effectively in their chosen fields. It provides for specialisation in specific areas of Studio Practice as well as exposure to critical thinking in the field and collaborative practice.</p> <p>After successful completion of this qualification, an Advanced Diploma will be awarded during an official graduation ceremony of CUT.</p>						

1 <sup>st</sup> YEAR	INSTRUCTIONAL OFFERINGS
	Research methods and Techniques
	Studio Intensive
	Collaborative Practice and Ideation
	Social Design and Design Citizenship
	Critical Studies

Qualification & Code						
ADVANCED DIPLOMA: DESIGN TECHNOLOGY						
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	N/A
<b>Additional Admission Requirements</b>						
<i>Access to the Advanced Diploma in Design Technology qualification is open to learners in possession of a Diploma in Design and Studio Art or equivalent qualification.</i>						
<b>Career Opportunities</b>						
<p>Graduates from the Advanced Diploma in Design Technology stream of study will gain exposure to the skills with the aim to make them creative practitioners (whether in fashion, photographic, digital, communication design or visual arts practice) and allied professionals (technicians). They will also gain training in research methodology and conceptual development that will position them for further study opportunities.</p>						

## Remarks

The core objective of this advanced diploma is to promote a sound understanding of a selected process of creative production, thereby enabling students to have technical and/or technological mastery over production methods whether analogue, digital, high or low tech. The Advanced Diploma in Design Technology is designed in a manner which encourages students coming from a broad conceptual understanding of design and studio arts to focus more specifically on a selection of technologies, materials and process (high and low) in which they will specialise.

After successful completion of this qualification, an Advanced Diploma will be awarded during an official graduation ceremony of CUT.

4 <sup>th</sup> YEAR	INSTRUCTIONAL OFFERINGS
	Research methods and Techniques
	Visual Literacy and Collaborative Practice
	Materials and Methods Proficiency
	Techniques and Technology Studies
	Production & Process management

## Qualification & Code

BACCALAUREUS TECHNOLOGIAE: FINE ART

KBBTAR

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

*For candidates who matriculated in 2007 or before:*

- Appropriate M+3 qualification.

*For candidates who completed the NSC in 2008 and thereafter:*

- National Diploma: Fine Art with the appropriate instructional offerings.

### Career Opportunities

Museum artist or curator; television and film set and prop designer; décor designer; illustrator; animator; special effects artist; art critic; practising artist.

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings:	
ART40AK	Art Theory IV
NMD10AK	Research Methodology
One of the following optional instructional offerings:	
CER40AK	Ceramics: Fine Art IV
DRW40AK	Drawing: Fine Art IV
PNT40AK	Painting IV
PHO40AK	Photography: Fine Art IV
PRT40AK	Printmaking IV
SCL40AK	Sculpture IV

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: GRAPHIC DESIGN						KGBTGS
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b> <i>For candidates who matriculated in 2007 or before:</i> <ul style="list-style-type: none"> <li>■ Appropriate M+3 qualification.</li> </ul> <i>For candidates who completed the NSC in 2008 and thereafter:</i> <ul style="list-style-type: none"> <li>■ National Diploma with the appropriate instructional offerings.</li> </ul>						
<b>Career Opportunities</b> Newspapers and television; commerce and industry; advertising agencies; design studios; printers and publishers; public sector.						

YEAR	INSTRUCTIONAL OFFERINGS
HAD40AK	Theory of Graphic Design and Academic Report IV
COD40AK	Communication Design IV

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: PHOTOGRAPHY						KFBTGP
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b> <i>For candidates who matriculated in 2007 or before:</i> <ul style="list-style-type: none"> <li>■ Appropriate M+3 qualification.</li> </ul> <i>For candidates who completed the NSC in 2008 and thereafter:</i> <ul style="list-style-type: none"> <li>■ National Diploma: Photography, with the appropriate instructional offerings.</li> </ul>						
<b>Career Opportunities</b> Commerce and industry; government and public sectors; film and television industries; own studio.						

YEAR	INSTRUCTIONAL OFFERINGS
THY40AK	Theory of Photography IV
GPY40AK	Applied Photography IV
MET10AK	Research Methods and Techniques I

# DEPARTMENT OF LANGUAGE AND SOCIAL SCIENCES EDUCATION

<b>Head of Department:</b> Dr P Phindane	<b>Secretary: Ms C Monoko</b> Tel.: 051 507 3371   Fax: 051 507 3367   E-mail: mmonoko@cut.ac.za
<b>Acting Department Manager:</b> Dr AM Rambuda	Tel: 057 910 3607   Fax: 0866192507   E-mail: arambuda@cut.ac.za

Qualification & Code						
BACCALAUREUS EDUCATIONIS: SP & FET ECONOMIC AND MANAGEMENT SCIENCES						BEDSFE
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	4 years	Semester 1	480	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<i>For candidates who matriculated in 2007 or before:</i>						
<ul style="list-style-type: none"> <li>Senior Certificate with <b>matriculation exemption</b>. Grade 12 Accounting is a prerequisite. Mathematics at NQF level 4, with at least a D symbol on Standard Grade, is also required.</li> </ul>						
<i>For candidates who completed the NSC in 2008 and thereafter:</i>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a candidate must have the NSC with endorsement for admission to a bachelor's degree. A candidate selecting Mathematics as a major subject must have passed either Mathematics with a minimum mark of 50%, or Mathematical Literacy with a minimum mark of 70%. A minimum mark of 50% in Accounting is required, irrespective of whether or not the candidate continues with Accounting after year one.</li> </ul>						
<b>Pre-requisites</b>						
<ul style="list-style-type: none"> <li>The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.</li> </ul>						
<b>Career Opportunities</b>						
Teacher or lecturer at a secondary school or FET college; training officer at a private or public institution.						
<b>Enquiries</b>						
Mr MG Zwane (Bloemfontein Campus)						
Tel.: 051 507 3872   Fax: 051 507 3367   E-mail: mzwane@cut.ac.za						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT11ES		Micro-teaching and Observation	6
EDC11ES		Education I: Learner & Learning	12
EDM11ES		Education I: Media in Teaching and Learning	19
NMR5011		Numeracy	6
DLC5011		Basic Digital Literacy	6
LFS11ES		Life Skills	6

ONE major for SP Teaching I:			
EMS11ES		Economics and Management Sciences Education Option: EMS SP1	16
Compulsory modules:			
	LCS5012	Academic Literacy and Communication Studies	12
	ADC5022	Advanced Digital Literacy	6
	SBX12ES	School-based Learning I	12
Select TWO majors for FET Teaching I:			
	ECS12ES	Economics and Management Sciences Education Option: Economics FET I	16
	ACT12ES	Economics and Management Sciences Education Option: Accounting FET I	16
	BMG12ES	Economics and Management Sciences Education Option: Business Management FET I	16
Select one language that is not a home language:			
	CAY12ES	Communication in Afrikaans Second Language or	12
	CTY12ES	Communication in Setswana Second Language or	12
	CXY12ES	Communication in IsiXhosa Second Language or	12
	CHY12ES	Communication in Sesotho Second Language or	12
	CZY12ES	Communication in isiZulu Second Language or	12
	CNX12ES	Communication in English Second Language	12
Total:			145

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LNG11ES		Language of Teaching and Learning I	12
MCT21ES		Micro-teaching II	6
EDC21ES		Education II: Working in Classrooms	19
EDM21ES		Education II: Curriculum Studies	19
GSM11ES		General Subject Methodology I	6
ONE specific instructional offering (Methodology EMS – SP I):			
ESM21ES		Economic and Management Sciences Education Methodology Option: EMS SP I	6
ONE major instructional offering for SP II:			
EMS21ES		Economics and Management Sciences Education Option: Economics SP II	16
Compulsory modules:			
	SBX22ES	School-based Learning II	24
	LNG22ES	Language of Learning and Teaching II	12
Select TWO specific instructional offerings (Methodologies C for FET I):			
	ECF22ES	Economics and Management Sciences Education Methodology Option: Economics FET I	6
	ATF22ES	Economics and Management Sciences Education Methodology Option: Accounting FET I	6

	BMF22ES	Economic and Management Sciences Education Methodology Option: Business Management FET I	6
Select TWO majors for FET Teaching II:			
	ENM22ES	Economics and Management Sciences Education Option: Economics II	16
	ATM22ES	Economics and Management Sciences Education Option: Accounting II	16
	BMM22ES	Economics and Management Sciences Education Option: Business Management II	16
Total:			164

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT31ES		Micro-teaching III	6
EDC31ES		Education III: Being a Teacher	19
EDM31ES		Education III: Learner-centred Schools	19
GSM21ES		General Subject Methodology II	6
Select one specific instructional offering (Methodology A – SP II):			
ESM31ES		Economics and Management Sciences Education Methodology Option: EMS SP II	6
ONE major SP Teaching III			
EMS31ES		Economics and Management Sciences Education Option: Economics III	16

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory module:			
	SBX32ES	School-based Learning III	24
Specific TWO instructional offerings (Methodologies A – FET II):			
	ECF32ES	Economics and Management Sciences Education Methodology Option: Economics FET II	6
	STF32ES	Economics and Management Sciences Education Methodology Option: Accounting FET II	6
	BMF32ES	Economics and Management Sciences Education Methodology Option: Business Management FET II	6
Select TWO majors for FET teaching III:			
	ENM32ES	Economics and Management Sciences Education Option: Economics III	16
	ATM32ES	Economics and Management Sciences Education Option: Accounting III	16
	BMM32ES	Economics and Management Sciences Education Option: Business Management III	16
Total:			140

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
EDC41ES		Education IV: School Administration	19
IER41ES		Introduction to Classroom Research	25
Select one specific instructional offering (Methodology A for SP III):			
ESM41ES		Economics and Management Sciences Education Methodology Option: EMS SP III	6
Compulsory module:			
	SBX42ES	School-based Learning IV	24
Select TWO specific instructional offerings (Methodology B for FET III):			
	ECF42ES	Economics and Management Sciences Education Option: Economics FET III	6
	ATF42ES	Economics and Management Sciences Education Option: Accounting FET III	6
	BMF42ES	Economics and Management Sciences Education Option: Business Management FET III	6
Total:			86

Qualification & Code						
BACCALAUREUS EDUCATIONIS: SP & FET: LANGUAGE EDUCATION						BEDSFL
Campus	Duration of Programme	Enrolment Option(s)	SAGA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	4 years	Semester 1	480	6	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>Senior Certificate with matriculation exemption and with two languages, including English Second Language. In addition to the general admission requirements, a minimum mark of 50% in English and any one of Sesotho, Afrikaans, Setswana, isiXhosa or isiZulu is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a candidate must have the NSC with endorsement for admission to a bachelor's degree. A minimum mark of 50% in English and in any one of Sesotho, Afrikaans, Setswana, isiXhosa or isiZulu is required.</li> </ul>						
<b>Pre-requisites</b>						
<ul style="list-style-type: none"> <li>The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.</li> </ul>						
<b>Career Opportunities</b>						
Teacher or lecturer at a secondary school or FET college; training officer at a private or public institution.						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT11ES		Micro-teaching and Observation	6
EDC11ES		Education I: Learner & Learning	12

EDM11ES		Education I: Media in Teaching and Learning	19
DLC5011		Basic Digital Literacy	6
LFS11ES		Life Skills	6
NMR5011		Numeracy	6
Select one major instructional offering for SP Teaching I:			
EHS11ES		Language Education Option: English SP 1 or	16
AFS11ES		Language Education Option: Afrikaans SP I or	16
SST11ES		Language Education Option: Sesotho SP I or	16
SWS11ES		Language Education Option: Setswana SP I or	16
ZLS11ES		Language Education Option: IsiZulu SP I or	16
XSH11ES		Language Education Option: IsiXhosa SP I	16

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LCS5011	LCS5012	Academic Literacy and Communication Studies	12
	ADC5022	Advanced Digital Literacy	6
	SBX12ES	School-based Learning I	12
Select TWO major instructional offerings for FET Teaching I:			
	EHM 12ES	Languages Education Option: English 1	16
	AFM12ES	Languages Education Option: Afrikaans 1	16
	SWM12ES	Languages Education Option: Setswana I	16
	SSM12ES	Languages Education Option: Sesotho I	16
	ZLM12ES	Languages Education Option: IsiZulu I	16
	XSM12ES	Languages Education Option: IsiXhosa I	16
Select ONE language that is not a home language:			
	CAY12ES	Communication in Afrikaans Second Language or	12
	CTY12ES	Communication in Setswana Second Language or	12
	CXY12ES	Communication in IsiXhosa Second Language or	12
	CHY12ES	Communication in Sesotho Second Language or	12
	CZY12ES	Communication in isiZulu Second Language or	12
	CNX12ES	Communication in English Second Language	12
Total:			145

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LNG11ES		Language of Teaching and Learning I	12
MCT21ES		Micro-teaching II	6
GSM11ES		General Subject Methodology I	6
EDC21ES		Education II: Working in the Classroom	19
EDM21ES		Education II: Curriculum Studies	19
Select ONE specific instructional offering (Methodology A – SP I):			
EHG21ES		Specific Subject Methodology A- Languages Education Option: English SP I or	6

AFG21ES		Specific Subject Methodology A- Languages Education Option: Afrikaans SP I or	6
SSG21ES		Specific Subject Methodology A- Languages Education Option: Sesotho SP I or	6
SWG21ES		Specific Subject Methodology A- Languages Education Option: Setswana SP I or	6
ZLG21ES		Specific Subject Methodology A- Languages Education Option: IsiZulu SP I or	6
XSG21ES		Specific Subject Methodology A- Languages Education Option: English SP I	6
Select ONE SP major option: Language SP II			
EHS21ES		Languages Education Option: English SP II or	16
AFS21ES		Languages Education Option: Afrikaans SP II or	16
SST21ES		Languages Education Option: Sesotho SP II or	16
SWS21ES		Languages Education Option: Setswana SP II or	16
ZLS21ES		Languages Education Option: isiZulu SP II or	16
XSH21ES		Languages Education Option: isiXhosa SP II	16

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
	SBX22ES	School-based Learning II	24
	LNG22ES	Language of Learning and Teaching II	12
Select TWO FET-specific instructional offerings (Methodologies I):			
	ENF22ES	Languages Education Methodology Option: English FET I	6
	AFF22ES	Languages Education Methodology Option: Afrikaans FET I	6
	SSF22ES	Languages Education Methodology Option: Sesotho FET I	6
	SWF22ES	Languages Education Methodology Option: Setswana I FET I	6
	ZLF22ES	Languages Education Methodology Option: IsiZulu I FET I	6
	XHF22ES	Languages Education Methodology Option: IsiXhosa FET I	6
Select TWO major instructional offerings for FET Teaching II:			
	EHM22ES	Languages Education Option: English II	16
	AFM22ES	Languages Education Option: Afrikaans II	16
	SSM22ES	Languages Education Option: Sesotho II	16
	SWM22ES	Languages Education Option: Setswana II	16
	ZLM22ES	Languages Education Option: IsiZulu II	16
	XSM22ES	Languages Education Option IsiXhosa II	16
Total:			164

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT31ES		Micro-teaching III	6
EDC31ES		Education III: Being a Teacher	19
EDM31ES		Education III: Learner-centred Schools	19
GSM21ES		General Subject Methodology II	6

Select ONE specific instructional offering (Methodology A – SP II):			
EHG31ES		Languages Education Methodology Option: English SP II or	6
AFG31ES		Languages Education Methodology Option: Afrikaans SP II or	6
SSG31ES		Languages Education Methodology Option: Sesotho SP II or	6
SWG31ES		Languages Education Methodology Option: Setswana SP II or	6
ZLG31ES		Languages Education Methodology Option: IsiZulu SP II or	6
XSG31ES		Languages Education Methodology Option: English SP II	6
Select ONE SP major option: Language SP III			
EHS21ES		Languages Education Option: English SP III or	16
AFS21ES		Languages Education Option: Afrikaans SP III or	16
SST21ES		Languages Education Option: Sesotho SP III or	16
SWS21ES		Languages Education Option: Setswana SP III or	16
ZLS21ES		Languages Education Option: isiZulu SP III or	16
XSH21ES		Languages Education Option: isiXhosa SP III	16

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory module:			
	SBX32ES	School-based Learning III	24
Select TWO FET-specific instructional offerings (Methodologies A – FET II):			
	ENF32ES	Languages Education Option: Subject-specific Methodology English FET II	6
	AFF32ES	Languages Education Option: Subject-specific Methodology Afrikaans FET II	6
	SSF32ES	Languages Education Option: Subject-specific Methodology Sesotho FET II	6
	SWF32ES	Languages Education Option: Subject-specific Methodology Setswana FET II	6
	ZLF32ES	Languages Education Option: Subject-specific Methodology IsiZulu FET II	6
	XHF32ES	Languages Education Option: Subject-specific Methodology IsiXhosa FET II	6
Select TWO major instructional offerings for FET Teaching III:			
	EHM32ES	Languages Education Option: English III	16
	AFM32ES	Languages Education Option: Afrikaans III	16
	SSM32ES	Languages Education Option: Sesotho III	16
	SWM32ES	Languages Education Option: Setswana III	16
	ZLM32ES	Languages Education Option: IsiZulu III	16
	XSM32ES	Languages Education Option IsiXhosa III	16
Total:			140

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
EDC41ES		Education IV: School Administration	19
IER41ES		Introduction to Classroom Research	25

Select ONE specific instructional offering (Methodology A – SP III):			
EHG41ES		Languages Education Methodology Option: English SP III or	6
AFG41ES		Languages Education Methodology Option: Afrikaans SP III or	6
SSG41ES		Languages Education Methodology Option: Sesotho SP III or	6
SWG41ES		Languages Education Methodology Option: Setswana SP III or	6
ZLG41ES		Languages Education Methodology Option: IsiZulu SP III or	6
XSG41ES		Languages Education Methodology Option: IsiXhosa SP III	6

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory module:			
	SBX42ES	School-based Learning IV24	24
Select TWO specific instructional offerings (Methodology B - FET III):			
	ENF42ES	Languages Education Methodology Option: English FET III	6
	AFF42ES	Languages Education Methodology Option: Afrikaans FET III	6
	SSF42ES	Languages Education Methodology Option: Sesotho FET III	6
	SWF42ES	Languages Education Methodology Option: Setswana FET III	6
	XHF42ES	Languages Education Methodology Option: IsiZulu FET III	6
	ZLF42ES	Languages Education Methodology Option: IsiXhosa FET III	6
Total:			86

## DEPARTMENT OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION

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Dr W Setlaletoa

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**Acting Department Manager:**  
Dr AM Rambuda

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Qualification & Code						
BACCALAUREUS EDUCATIONIS: SP & FET: COMPUTER SCIENCE						BEDSFC
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	4 years	Semester 1	480	6	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

#### *For candidates who matriculated in 2007 or before:*

- In addition to the general admission requirements, the candidate must be in possession of a National Senior Certificate with matriculation exemption. Mathematics at NQF level 4 with a C-symbol on SG or a D-Symbol on HG is required.

#### *For candidates who completed the NSC in 2008 and thereafter:*

- In addition to the general admission requirements, the candidate must be in possession of the NSC with endorsement for admission to a bachelor's degree. A pass in Mathematics with a minimum mark of 50%. A pass in Information Technology is recommended.

#### *Pre-requisites*

- The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.

***The learning programme entails four years of full-time study and 21 weeks of work-integrated learning.***

### Career Opportunities

Teacher or lecturer at a secondary school or FET college.

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT11ES		Micro-teaching and Observation	6
EDC11ES		Education I: Learner & Learning	12
EDM11ES		Education I: Media in Teaching and Learning	19
NMR5011		Numeracy	6
DLC5011		Basic Digital Literacy	6
LFS11ES		Life Skills	6
One major for SP Teaching:			
MTH11ES		Mathematics SP1	16
Compulsory modules:			
	LCS5012	Academic Literacy and Communication Studies	12
	ADC5022	Advanced Digital Literacy	6
	SBX12ES	School-based Learning I	12
Select two majors for FET teaching:			
	ITT12ES	Information Technology I	16
	CMP12ES	Computer Applications Technology I	16
	MTC12ES	Mathematics FET I	16
Select one language:			
	CAY12ES	Communication in Afrikaans Second Language <b>or</b>	12
	CTY12ES	Communication in Setswana Second Language <b>or</b>	12
	CXY12ES	Communication in IsiXhosa Second Language <b>or</b>	12
	CHY12ES	Communication in Sesotho Second Language <b>or</b>	12
	CZY12ES	Communication in Zulu Second Language <b>or</b>	12
	CNX12ES	Communication in English Second Language	12
Total:			145

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LNG11ES		Language of Teaching and Learning I	12
MCT21ES		Micro-teaching II	6
EDC21ES		Education II: Working in Classrooms	19
EDM21ES		Education II: Curriculum Studies	19
GSM11ES		General Subject Methodology I	6
One specific instructional offering (Methodology A – SP I):			
MTS21ES		Mathematics Methodology SP I	6
One major for SP teaching:			
MTH21ES		Mathematics SP II	16
Compulsory modules:			
	SBX22ES	School-based Learning II	24
	LNG22ES	Language of Learning and Teaching II	12
Select TWO specific instructional offerings (Methodologies FET I):			
	IFM22ES	Information Technology Methodology FET I	6
	CTM22ES	Computer Applications Technology Methodology FET I	6
	MIM22ES	Mathematics Methodology FET I	6
Select TWO majors for FET II:			
	ITT22ES	Information Technology FET II	16
	CMP22ES	Computer Applications Technology FET II	16
	MTC22ES	Mathematics FET II	16
Total:			164

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT31ES		Micro-teaching III	6
EDC31ES		Education III: Being a Teacher	19
EDM31ES		Education III: Learner-centred Schools	19
GSM21ES		General Subject Methodology II	6
ONE specific instructional offering (Methodology A for SP II):			
MTS31ES		Mathematics Methodology SP II	6
One major for SP teaching:			
MTH31ES		Mathematics Methodology SP III	16
Compulsory module:			
	SBX32ES	School-based Learning III	24
Select TWO specific instructional offerings (Methodologies FET II):			
	IFM32ES	Information Technology Methodology FET II	6
	CTM32ES	Computer Applications Technology Methodology FET II	6
	MIM32ES	Mathematics Methodology FET II	6

Two FET majors for FET II:			
	ITT32ES	Information Technology FET II	16
	CMP32ES	Computer Applications Technology FET II	16
	MTC32ES	Mathematics FET III	16
Total:			140

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
EDC41ES		Education IV: School Administration	19
IER41ES		Introduction to Research	25
ONE specific instructional offering (Methodology SP):			
MTS41ES		Mathematics Methodology SP III	6
Compulsory module:			
	SBX42ES	School-based Learning IV	24
Select TWO specific instructional offerings (Methodology III):			
	IFM42ES	Information Technology Methodology FET III	6
	CTM42ES	Computer Applications Technology Methodology FET III	6
	MIM42ES	Mathematics Methodology FET III	6

Qualification & Code						
BACCALAUREUS EDUCATIONIS: SP & FET: NATURAL SCIENCES						BEDSFN
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	4 years	Semester 1	480	6	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, the candidate must be in possession of a National Senior Certificate with matriculation exemption. Mathematics, Biology, Chemistry and Physical Sciences at NQF level are prerequisites. Mathematics with a C-symbol on SG or an E-symbol on HG is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, the candidate must be in possession of the NSC with endorsement for admission to a bachelor's degree. A pass in Mathematics, Physical Sciences and Life Sciences with a minimum mark of 50% is required.</li> </ul>						
<b>Pre-requisites</b>						
<ul style="list-style-type: none"> <li>■ The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.</li> </ul>						
<b>Career Opportunities</b>						
Teacher or lecturer at a secondary school or FET college.						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT11ES		Micro-teaching and Observation	6
EDC11ES		Education I: Learner & Learning	12
EDM11ES		Education I: Media in Teaching and Learning	19
NMR5011		Numeracy	6
DLC5011		Basic Digital Literacy	6
LFS11ES		Life Skills	6
ONE major instructional offering for SP Teaching:			
NST11ES		Natural Science Option SP I	16

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
	LCS5012	Academic Literacy and Communication Studies	12
	ADC5022	Advanced Digital Literacy	6
	SBX12ES	School-based Learning I	12
TWO major instructional offerings for FET teaching:			
	LFC12ES	Life Sciences I	16
	PYS12ES	Physical Sciences I	16
Select ONE language:			
	CAY12ES	Communication in Afrikaans Second Language or	12
	CTY12ES	Communication in Setswana Second Language or	12
	CXY12ES	Communication in IsiXhosa Second Language or	12
	CHY12ES	Communication in Sesotho Second Language or	12
	CZY12ES	Communication in Zulu Second Language or	12
	CNX12ES	Communication in English Second Language	12
Total:			145

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LNG11ES		Language of Teaching and Learning I	12
MCT21ES		Micro-teaching II	6
EDC21ES		Education II: Working in the Classroom	19
EDM21ES		Education II: Curriculum Studies	19
GSM11ES		General Subject Methodology I	6
ONE specific instructional offering (Methodology A – SP I):			
NSM21ES		Natural Sciences Methodology SP I	6
ONE major SP			
NST21ES		Natural Sciences SP II	16
Compulsory modules:			

	SBX22ES	School-based Learning II	24
	LNG22ES	Language of Learning and Teaching II	12
TWO specific instructional offerings (Methodologies FET I):			
	LFM22ES	Life Sciences FET Methodology I	6
	PYM22ES	Physical Sciences FET Methodology I	6
TWO major instructional offerings (FET II):			
	LFC22ES	Life Sciences FET II	16
	PYT22ES	Physical Sciences FET II	16
Total:			164

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT31ES		Micro-teaching III	6
EDC31ES		Education III: Being a Teacher	19
EDM31ES		Education III: Learner-centred Schools	19
GSM21ES		General Subject Methodology II	6
ONE specific instructional offering (Methodology A for SP II):			
NMS31ES		Natural Sciences SP Methodology II	6
ONE major (SP Teaching III):			
NST31ES		Natural Sciences SP III	16
Compulsory module:			
	SBX32ES	School-based Learning III	24
TWO specific instructional offerings (Methodologies for FET II):			
	LFM32ES	Life Sciences FET Methodology II	6
	PYM32ES	Physical Sciences FET Methodology II	6
TWO major instructional offerings for FET Teaching III:			
	LFC32ES	Life Sciences FET III	16
	PYT32ES	Physical Sciences FET III	16
Total:			140

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
EDC41ES		Education IV: School Administration	19
IER41ES		Introduction to Classroom Research	25
ONE specific instructional offering (Methodology for SP):			
NSM41ES		Natural Sciences Methodology SP III	6
Compulsory module:			
	SBX42ES	School-based Learning IV	24
Two specific instructional offerings (Methodologies for FET II):			
	LSM42ES	Life Sciences FET Methodology III	6
	PYM 42ES	Physical Sciences FET Methodology III	6
Total:			86

Qualification & Code						
BACCALAUREUS EDUCATIONIS: SP & FET: TECHNOLOGY						BEDSFT
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	4 years	Semester 1	480	6	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>Senior Certificate with matriculation exemption. If Mathematics is selected, Mathematics at NQF level 4 with a D symbol on Higher Grade or C symbol on Standard Grade is required. Technical Drawing at NQF level 4 is recommended.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a candidate must have the NSC with endorsement for admission to a bachelor's degree. A candidate selecting Mathematics as a major subject must have passed either Mathematics with a minimum mark of 50%, or Mathematical Literacy with a minimum mark of 70%. Engineering Graphics and Design is recommended.</li> </ul>						
<b>Pre-requisites</b>						
<ul style="list-style-type: none"> <li>The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.</li> </ul>						
<b>Career Opportunities</b>						
Teacher or lecturer at a secondary school or FET college.						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT11ES		Micro-teaching and Observation	6
EDC11ES		Education I: Learner & Learning	12
EDM11ES		Education I: Media in Teaching and Learning	19
NMR5011		Numeracy	6
DLC5011		Basic Digital Literacy	6
LFS11ES		Life Skills	6
ONE major instructional offering for SP Teaching:			
TCG11ES		Technology SP I	16
Compulsory modules:			
	LCS5012	Academic Literacy and Communication Studies	12
	ADC5022	Advanced Digital Literacy	6
	SBX12ES	School-based Learning I	12
Select TWO major instructional offerings for FET teaching:			
	CVT12ES	Civil Technology FET I	16
	ETT12ES	Electrical Technology FET I	16
	EGD12ES	Engineering Graphics and Design FET I	16
	MNT12ES	Mechanical Technology FET I	16
Select ONE language:			
	CAY12ES	Communication in Afrikaans Second Language or	12
	CTY12ES	Communication in Setswana Second Language or	12
	CXY12ES	Communication in IsiXhosa Second Language or	12
	CHY12ES	Communication in Sesotho Second Language or	12

	CZY12ES	Communication in Zulu Second Language or	12
	CNX12ES	Communication in English Second Language	12
Total:			145

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LNG11ES		Language of Teaching and Learning I	12
MCT21ES		Micro-teaching II	6
EDC21ES		Education II: Working in the Classroom	19
EDM21ES		Education II: Curriculum Studies	19
GSM11ES		General Subject Methodology I	6
ONE specific instructional offering (Methodology A – SP I):			
TCM11ES		Technology Methodology SP I	6
ONE major SP instructional offering:			
TCG21ES		Technology SP II	16
Compulsory modules:			
	SBX22ES	School-based Learning II	24
	LNG22ES	Language of Learning and Teaching II	12
Select TWO specific instructional offerings (Methodologies FET I):			
	ETM22ES	Electrical Technology Methodology FET I	6
	EGM22ES	Engineering Graphics and Design Methodology FET I	6
	MNM22ES	Mechanical Technology Methodology FET I	6
	CVM22ES	Civil Technology Methodology FET I	6
Select two major instructional offerings (FET II):			
	EFT22ES	Electrical Technology FET II	16
	MNT22ES	Mechanical Technology FET II	16
	EGD22ES	Engineering Graphics and Design FET II	16
	CVT22ES	Civil Technology FET II	16
Total:			164

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT31ES		Micro-teaching III	6
EDC31ES		Education III: Being a Teacher	19
EDM31ES		Education III: Learner-centred Schools	19
GSM21ES		General Subject Methodology II	6
Select one specific instructional offering (Methodology A – SP II):			
TCM21ES		Technology Methodology SP II	6
One major instructional offering (SP III):			
TCG31ES		Technology SP III	16
Compulsory module:			
	SBX32ES	School-based Learning III	24

Select TWO specific instructional offering methodologies for FET II:			
	CVM32ES	Civil Technology Methodology II	6
	ETM32ES	Electrical Technology Methodology II	6
	MNM32ES	Mechanical Technology Methodology II	6
	EGM32ES	Engineering Graphics Design Methodology II	6
Select TWO major instructional offerings for FET Teaching III:			
	EFT32ES	Electrical Technology III	16
	MNT32ES	Mechanical Technology III	16
	CVT32ES	Civil Technology III	16
	EGD32ES	Engineering Graphics & Design III	16
Total:			140
4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2	Compulsory modules:	
EDC41ES		Education IV: School Administration	19
IER41ES		Introduction to Classroom Research	25
ONE specific instructional offering (Methodology A SP III):			
TCM31ES		Technology Methodology SP III	6
Compulsory module:			
	SBX42ES	School-based Learning IV	24
Select TWO specific instructional offerings (Methodologies for FET III):			
	CVM42ES	Civil Technology Methodology III	6
	ETM42ES	Electrical Technology Methodology III	6
	MNM42ES	Mechanical Technology Methodology III	6
	EGM42ES	Engineering Graphics & Design Methodology III	6
Total:			86

Qualification & Code						
BACCALAUREUS EDUCATIONIS: SP & FET: MATHEMATICS						BEDSFM
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	4 years	Semester 1	480	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>Senior Certificate with matriculation exemption. Mathematics, and Physics at NQF level 4 are prerequisites. A C symbol on Standard Grade or E symbol on Higher Grade in Mathematics is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>In addition to the general admission requirements, a candidate must have the NSC with endorsement for admission to a bachelor's degree. A candidate selecting Physics as major subject(s) must have passed Physical Science with a minimum mark of 50%. A candidate must have passed Mathematics with a minimum mark of 50%.</li> </ul>						
<b>Pre-requisites</b>						
<ul style="list-style-type: none"> <li>The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.</li> </ul>						
<b>Career Opportunities</b>						
Teacher or lecturer at a secondary school or FET college.						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
MCT11ES		Micro-teaching and Observation	6
EDC11ES		Education I: Learner & Learning	12
EDM11ES		Education I: Media in Teaching and Learning	19
NMR5011		Numeracy	6
DLC5011		Basic Digital Literacy	6
LFS11ES		Life Skills	6
ONE major instructional offering for SP Teaching:			
MTH11ES		Mathematics SP I	16
Compulsory modules:			
	LCS5012	Academic Literacy and Communication Studies	12
	ADC5022	Advanced Digital Literacy	6
	SBX12ES	School-based Learning I	12
TWO major instructional offerings for FET teaching:			
	MTC12ES	Mathematics I	16
	PYT12ES	Physical Sciences I	16
Select ONE language:			
	CAY12ES	Communication in Afrikaans Second Language or	12
	CTY12ES	Communication in Setswana Second Language or	12
	CXY12ES	Communication in IsiXhosa Second Language or	12
	CHY12ES	Communication in Sesotho Second Language or	12
	CZY12ES	Communication in Zulu Second Language or	12
	CNX12ES	Communication in English Second Language	12
Total:			145

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
LNG11ES		Language of Teaching and Learning I	12
MCT21ES		Micro-teaching II	6
EDC21ES		Education II: Working in the Classroom	19
EDM21ES		Education II: Curriculum Studies	19
GSM11ES		General Subject Methodology I	6
ONE specific instructional offering (Methodology A – SP I):			
MTS21ES		Mathematics Methodology SP I	6
ONE major SP instructional offering:			
MTH21ES		Mathematics SP II	16

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
	SBX22ES	School-based Learning II	24
	LNG22ES	Language of Learning and Teaching II	12
TWO specific instructional offerings (Methodologies for FET I):			
	MIM22ES	Mathematics Methodology FET I	6
	PYM22ES	Physical Sciences Methodology FET I	6
TWO major instructional offerings for FET II:			
	MTC22ES	Mathematics FET II	16
	PYT22ES	Physical Sciences FET II	16
Total:			164

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
MCT31ES		Micro-teaching III	6
EDC31ES		Education III: Being a Teacher	19
EDM31ES		Education III: Learner-centred Schools	19
GSM21ES		General Subject Methodology II	6
ONE specific instructional offering (Methodology A for SP II):			
MTS31ES		Mathematics Methodology SP II	6
ONE major instructional offering for SP III:			
MTH31ES		Mathematics SP III	16
Compulsory module:			
	SBX32ES	School-based Learning III	24
TWO specific instructional offerings (Methodologies for FET II):			
	MIM32ES	Mathematics Methodology FET II	6
	PYM32ES	Physical Sciences Methodology FET II	6
TWO major instructional offerings for FET Teaching III:			
	MTC32ES	Mathematics FET III	16
	PYT32ES	Physical Sciences FET III	16
Total:			140

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
Compulsory modules:			
EDC41ES		Education IV: School Administration	19
IER41ES		Introduction to Classroom Research	25
ONE specific instructional offering (Methodology A for SP III):			
MTS41ES		Mathematics Methodology SP III	6
Compulsory module:			

	SBX42ES	School-based Learning IV	24
TWO specific instructional offerings (Methodologies B for FET III):			
	PYM42ES	Physical Sciences Methodology III	6
	MIM42ES	Mathematics Methodology FET III	6
Total:			86

## DEPARTMENT OF POSTGRADUATE STUDIES: EDUCATION

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Qualification & Code						
POSTGRADUATE CERTIFICATE IN EDUCATION (PGCE) No new intake in 2018						BWPCWC
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	1 year full-time or 2 years part-time	Semester 1	144	6	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
The applicant must hold at least a bachelor's degree or a three-year diploma at NQF level 6 (360 credits). The degree or diploma must include at least two school-related subjects at second-year level.						
Alternatively one school-related subject must be either at second- or third-year level and one at first-year level, on condition that the latter will be registered for upgrading to second-year level concurrently with the PGCE for non-degree purposes. The school-related subjects for the 360-credit diploma must be within the DHET fields.						
<b>Career Opportunities</b>						
Teacher or lecturer at a secondary school or FET college.						
<b>Purpose</b>						
To provide training for the initial professional qualification of teachers and to train other specialists to become qualified educators. The development of teachers is receiving high priority in South Africa, especially among disadvantaged communities.						
This PGCE, specialising in the training of FET phase educators, will enable current professionals without a professional teaching qualification, but with an M+3 (360-credit) qualification, to qualify as an educator.						

1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS
ODW40AB	Education IV
RFS40AB	Professional Studies IV
CPL21AB	Computer Literacy II
INR10AB	Introduction to Research I
SBL40AB	School-Based Learning IV

Choose one:	
LDA22AB	Language and Development Communication II (Language X) Afrikaans or
LDE22AB	Language and Development Communication II (Language X) English or
LDS22AB	Language and Development Communication II (Language X) Sesotho
Methodology : (Choose two):	
MRE40AB	Methodology: Accounting
MAW40AB	Methodology: Agricultural Sciences
MBS40AB	Methodology: Business Studies
MCT40AB	Methodology: Civil Technology
MCA40AB	Methodology: Computer Applications Technology
MCN40AB	Methodology: Consumer Studies
MEK40AB	Methodology: Economics
MEY40AB	Methodology: Electrical Technology
MGD40AB	Methodology: Engineering Graphics and Design
MGY40AB	Methodology: Geography
MHI40AB	Methodology: History
MGS40AB	Methodology: Hospitality Studies
MIT40AB	Methodology: Information Technology
MAF40AB	Methodology: Afrikaans
MEH40AB	Methodology: English
MSE40AB	Methodology: Sesotho
MLO40AB	Methodology: Life Orientation
MLS40AB	Methodology: Life Sciences
MML40AB	Methodology: Mathematical Literacy
MWI40AB	Methodology: Mathematics
MTE40AB	Methodology: Mechanical Technology
MPH40AB	Methodology: Physical Science
MTO40AB	Methodology: Tourism

Qualification & Code						
POSTGRADUATE CERTIFICATE IN EDUCATION (PGCE)						BWBEHW
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	1 year full-time or 2 years part-time	Semester 1	144	7	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b></p> <p>The applicant must hold at least a bachelor's degree or three-year diploma evaluated at NQF level 6 (old structure) or NQF level 7 (new structure) (360 credits). The degree or diploma must include at least two school-related subjects. One school-related subject must be at either second-year or third-year level (for FET Methodology), and one must be at first-year level (for SP Methodology). The 360-credit diploma teaching subjects must be within the list of the Department of Higher Education and Training (DHET) fields.</p> <p>Selection will be subject to academic performance in the major subjects of the degree/diploma and the capacity with regards to methodologies.</p>						

## Career Opportunities

Teacher or lecturer at a secondary school or FET college.

## Purpose

The PGCE (Senior Phase and Further Education and Training Teaching) is a professional education qualification, and focuses on developing competencies that the student can apply as a subject teacher in the Senior Phase and the Further Education and Training Phase. The qualification requires a specific depth and specialisation of knowledge, together with practical skills and school-based learning, to enable successful students to apply their learning as beginner teachers in schools in varying contexts. The qualification aims at the development of professional competence, reflexively grounded in educational theory. The PGCE (Senior Phase and Further Education and Training Teaching) is an entry-level, initial professional teaching programme that 'caps' an undergraduate degree or an approved diploma.

1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS
ODW40AB	Education
RFS40AB	Professional Studies
CPL21AB	Computer Literacy
INR10AB	Introduction to Research
SBL40AB	School-Based Learning
Choose one (Not your home language):	
(CLA10AB)	Conversational language: Afrikaans
(CLE10AB)	Conversational language: English
(CLS10AB)	Conversational language: SeSotho
(SSL10AB)	Conversational language: SA Sign Language
(CLX10AB)	Conversational language: IsiXhosa
(CLZ10AB)	Conversational language: isiZulu
Methodology (Senior Phase) : (Qualify for one):	
(MAR40AB)	Methodology: Arts and Culture
(MEM40AB)	Methodology: Economic and Management Sciences
(MAK40AB)	Methodology: Afrikaans SP
(MEN40AB)	Methodology: English SP
(MSO40AB)	Methodology: Sesotho SP
(MXS40AB)	Methodology: Xhosa SP
(MLN40AB)	Methodology: Life Orientation
(MNS40AB)	Methodology: Natural Sciences
(MMA40AB)	Methodology: Mathematics
(MSS40AB)	Methodology: Social Sciences
(MTN40AB)	Methodology: Technology
New codes to be created for those in brackets – these can be used	
Methodology (FET phase): (Qualify for one)	
MRE40AB	Methodology: Accounting
MAW40AB	Methodology: Agricultural Sciences
MBS40AB	Methodology: Business Studies
MCT40AB	Methodology: Civil Technology

MCA40AB	Methodology: Computer Applications Technology
MCN40AB	Methodology: Consumer Studies
MEK40AB	Methodology: Economics
MEY40AB	Methodology: Electrical Technology
MGD40AB	Methodology: Engineering Graphics and Design
MGY40AB	Methodology: Geography
MHI40AB	Methodology: History
MGS40AB	Methodology: Hospitality Studies
MIT40AB	Methodology: Information Technology
MAF40AB	Methodology: Afrikaans
MEH40AB	Methodology: English
MSE40AB	Methodology: Sesotho
MLO40AB	Methodology: Life Orientation
MLS40AB	Methodology: Life Sciences
MML40AB	Methodology: Mathematical Literacy
MWI40AB	Methodology: Mathematics
MTE40AB	Methodology: Mechanical Technology
MPH40AB	Methodology: Physical Science
MTO40AB	Methodology: Tourism

Qualification & Code						
BACHELOR OF EDUCATION (HONS): EDUCATIONAL MANAGEMENT						H_EDUM
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	1 year full-time or 2 years part-time	Semester 1	126	8	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b> A four-year education degree A three-year degree/diploma and a Post Graduate Certificate in Education (PGCE)						
<b>Career Opportunities</b> The qualification will improve the candidate's position when applying for promotion.						

FULL-TIME	
1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory module	
RES30AB	Research Methods and Techniques
Choose any 4 modules	
LED10AB	Law of Education
FME50AB	Financial Management in Education
PME50AB	Human Resource Management in Education
MEI50AB	Management of Educational Institutions
EDP40AB	Educational Psychology

PART-TIME	
1 <sup>ST</sup> YEAR	INSTRUCTIONAL OFFERINGS
Choose any 4 modules	
LED10AB	Law of Education
FME50AB	Financial Management in Education
PME50AB	Human Resource Management in Education
MEI50AB	Management of Educational Institutions
EDP40AB	Educational Psychology
2 <sup>nd</sup> YEAR	Compulsory module
RES30AB	Research Methods and Techniques





Faculty of  
**MANAGEMENT  
SCIENCES**

### General

The planning and development of CUT's courses are based on the expert advice of consultative committees and specialists in business, commerce, the public sector and industry. All courses are vocationally oriented and based on a rigorous analytical approach.

It is the Faculty's objective to prepare graduates for professional business and public management practice. As a result of adopting a unique approach to business and public management training, the employment rate of our graduates is high. If you are interested in a career in the field of Accounting, Internal Auditing, Financial Information Systems, Human Resource Management, Project Management, Business Administration, Community Development, Office Management and Technology, Marketing Management, Public Management, Tourism Management or Hospitality Management, this Faculty is the place to be.

The offering of any programme is subject to a minimum number of candidates expressing interest therein and/or being selected for that specific programme.

### Qualification Structure

The National Diploma is a three-year, full-time, career-oriented qualification. After completing the National Diploma, the student may continue with a fourth year of study to obtain the Baccalaureus Technologiae (BTech) degree, subject to meeting specific programme requirements. A student who is already part of the active workforce and who possesses an M+3 qualification (or equivalent) may complete the BTech degree part-time over a two-year period (or over a one-year period in the case of the BTech: Public Management). Students also have the opportunity to enrol for the Magister Technologiae (MTech) and Doctor Technologiae (DTech) degrees (where applicable).

In the Department of Accounting and Auditing, students must first complete the two-year National Higher Certificate on a full-time basis before they may enrol for the National Diploma in their third year. Thereafter, students may progress to the BTech degrees.

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# DEPARTMENT OF ACCOUNTING AND AUDITING

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## Qualification & Code

NATIONAL DIPLOMA: COST AND MANAGEMENT ACCOUNTING

BRNDTJ

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 year full-time	Semester 1	360	6	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

***A National Senior Certificate or equivalent qualification is required for admission to the first year of study***

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

***For candidates who matriculated in 2007 or before:***

- In addition to the general admission requirements, a mark of 50% (D symbol) on Higher Grade or 60% (C symbol) on Standard Grade in Accounting is required.

***For candidates who completed the NSC in 2008 and thereafter:***

- In addition to the general admission requirements, a minimum mark of 50% (rating 4) in Accounting is required.

### Career Opportunities

Career opportunities exist in the manufacturing and mining industries, as well as in the public and private sectors. Management accountants provide financial managers with important information that allows them to make informed business decisions, and therefore they play an important role in the planning, control and evaluation of business processes.

## Remarks

Applicants that do not meet the minimum admission requirements for this programme, may also consider the Certificate: Accounting Technicians (refer to the web for more details).

Upon completion of the first two years of study, the student is awarded the National Higher Certificate. Pending approval by the Head of Department, the student then qualifies to enrol for a third year of study in Internal Auditing or Cost and Management Accounting.

This programme will be offered on a full-time basis and during the day only.

## Prerequisites

The student may only follow the second-year level of study on condition that the first-year level has been successfully completed.

The student may only follow the third-year level of study on condition that the second-year level has been successfully completed.

The Academic Literacy and Communication Studies programme 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 re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy and Communication Studies programme and the Personal Information Management programme.

Instructional offerings	Prerequisite instructional offerings:
Accounting Software I	Financial Accounting I
Auditing II	Financial Accounting I
Business Information Systems I (Semester 2)	Business Information Systems I (Semester 1)
Taxation I	Financial Accounting I
Management Accounting III	Cost Accounting II

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
REK11CB	REK12CB	Financial Accounting I
COM11AB		Communication I
BCL11AB		Business Calculations I
	EVG12AB	Entrepreneurial Skills I
BIS11AB	BIS12AB	Business Information Systems I
EKN11EB	EKN12EB	Economics I
	KRK12AB	Cost Accounting I
	CLA12AB	Commercial Law for Accountants I
PRE1A		English Proficiency and
PRE2B		English Proficiency
PIM5011		Personal Information Management
2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
REK21CB	REK22CB	Financial Accounting II
KRK21AB	KRK22AB	Cost Accounting II
ATS11AB	ATS12AB	Accounting Software I

CLA21AB	CLA22AB	Commercial Law for Accountants II
ODT21BB	ODT22BB	Auditing II
	BEL12BB	Taxation I
<b>3<sup>RD</sup> YEAR</b>		<b>INSTRUCTIONAL OFFERINGS</b>
<b>SEMESTER 1</b>	<b>SEMESTER 2</b>	
BEL21BB	BEL22BB	Taxation II
CRP21AB		Corporate Procedures II
	BSS22AB	Business Statistics II
REK31CB	REK32CB	Financial Accounting III
BSR31AB	BSR32AB	Management Accounting III
ORM31AB	ORM32AB	Organisational Management III

### Qualification & Code

BACCALAUREUS TECHNOLOGIAE: COST AND MANAGEMENT ACCOUNTING

BRBTNA

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	1 year full-time	Semester 1	120	6	See below: Additional Admission Requirements.	Selection

#### Additional Admission Requirements

- National Diploma: Cost and Management Accounting obtained in the last three years and passed with a minimum average of 55%.

#### Career Opportunities

Career opportunities exist in the manufacturing and mining industries, as well as in the public and private sectors. Management accountants provide financial managers with important information that allows them to make informed business decisions, and therefore they play an important role in the planning, control and evaluation of business processes.

#### Remarks

The learning programme is offered on a full-time basis. Some lectures may be presented in the evenings.

#### Prerequisites

The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.

<b>4<sup>TH</sup> YEAR</b>		<b>INSTRUCTIONAL OFFERINGS</b>
<b>SEMESTER 1</b>	<b>SEMESTER 2</b>	
FNS41BB	FNS42BB	Financial Management IV
FNR41AB	FNR42AB	Financial Reporting IV
BSR41AB	BSR42AB	Management Accounting IV
SJM41AB	SJM42AB	Systems and Project Management IV
NMT11BB		Research Methodology I
BNE41AB		Business Ethics IV
	BNS22AB	Business Strategy II

Qualification & Code						
NATIONAL DIPLOMA: FINANCIAL INFORMATION SYSTEMS						BCNDFL
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 year full-time	Semester 1	360	6	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b></p> <p><i>A National Senior Certificate or equivalent qualification is required for admission to the first year of study</i></p> <p><i>Applicants in possession of a National Certificate Vocational (NCV) will be selected according to the selection requirements as approved by Senate.</i></p> <p><i>For candidates who matriculated in 2007 or before:</i></p> <ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 50% (D symbol) on Higher Grade or 60% (C symbol) on Standard Grade in Accounting is required.</li> </ul> <p><i>For candidates who completed the NSC in 2008 and thereafter:</i></p> <ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 60% (rating 5) in Accounting is required.</li> </ul>						
<p><b>Career Opportunities</b></p> <p>Database administrator, enterprise resource planner, systems developer, financial accountant, accounting information systems administrator, internal auditor, information systems auditor.</p>						
<p><b>Remarks</b></p> <p>The programme will be offered on a full-time basis during the day only.</p>						
<p><b>Prerequisites</b></p> <p>The student may only follow the second-year level of study on condition that the first-year level has been successfully completed.</p> <p>The student may only follow the third-year level of study on condition that the second-year level has been successfully completed.</p> <p>The Academic Literacy and Communication Studies programme requires the successful completion of two instructional offerings, A and B, in this specific order.</p> <p>A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B.</p> <p>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 re-register for instructional offering A in a subsequent semester.</p> <p>No student will be allowed to graduate without completing the Academic Literacy and Communication Studies programme and the Personal Information Management programme.</p>						
<b>Instructional offerings</b>			<b>Prerequisite instructional offerings</b>			
Taxation I			Financial Accounting I			
Auditing II			Financial Accounting I			
Software Skills I (Semester 2)			Software Skills I (Semester 1)			
Software Application II (Semester 1)			Software Skills I (Semester 1 & 2)			
Software Applications II (Semester 2)			Software Applications II (Semester 1)			
Internal Auditing III			Auditing II			

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
REK11CB	REK12CB	Financial Accounting I
COM11AB		Communication I
BCL11AB		Business Calculations I
	EVG12AB	Entrepreneurial Skills I
FIL11AB	FIL12AB	Financial Information Systems I
	KRK12AB	Cost Accounting I
	CLA12AB	Commercial Law for Accountants I
PIM5011		Personal Information Management
PRE1A	PRE2B	English Proficiency (Semester 1) and English Proficiency (Semester 2)

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
REK21CB	REK22CB	Financial Accounting II
KRK21AB	KRK22AB	Cost Accounting II
SOS11AB	SOS12AB	Software Skills I
FIL21AB	FIL22AB	Financial Information Systems II
ODT21BB	ODT22BB	Auditing II
	BEL12BB	Taxation I

3 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
REK31CB	REK32CB	Financial Accounting II
FIL31AB	FIL32AB	Financial Information Systems II
SOS21AB	SOS22AB	Software Skills I
EKN11EB		Economics I
	EHA12AB	e-Commerce
IDT31DB	IDT32DB	Internal Auditing

#### Qualification & Code

BACCALAUREUS TECHNOLOGIAE: FINANCIAL INFORMATION SYSTEMS

BCBTFA

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time	Semester 1	120	7	See below: Additional Admission Requirements.	Selection

#### Additional Admission Requirements

- A minimum of 55% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.
- National Diploma: Financial Information Systems, or equivalent qualification, with appropriate instructional offerings, obtained in the last 3 years.

### Career Opportunities

Application designer, business analyst, data analyst, database manager, financial analyst, financial IT specialist, financial accountant, cost and management accountant, IT accountant, internal auditor, information systems analyst, management information analyst.

### Remarks

Candidates will be expected to undergo Work-integrated Learning.

The actual programme design may differ from the table below.

### Prerequisites

The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
Compulsory instructional offerings:		
	FNB42BB	Financial Management IV
FNR41AB	FNR42AB	Financial Reporting IV
FIL41AB	FIL42AB	Financial Information Systems IV
NMT11BB		Research Methodology I
BNE41AB		Business Ethics IV
	BNS22AB	Business Strategy II
	FEX42ZB	Work-Integrated Learning IV
Optional instructional offerings:		
IDT41AB	IDT42AB	Internal Auditing IV

### Qualification & Code

NATIONAL DIPLOMA: INTERNAL AUDITING

BRNDAJ

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 year full-time	Semester 1	360	6	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

**A National Senior Certificate or equivalent qualification is required for admission to the first year of study.**

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

**For candidates who matriculated in 2007 or before:**

- In addition to the general admission requirements, a mark of 50% (D symbol) on Higher
- Grade or 60% (C symbol) on Standard Grade in Accounting is required.

**For candidates who completed the NSC in 2008 and thereafter:**

- In addition to the general admission requirements, a minimum mark of 50% (rating 4) in Accounting is required.

### Career Opportunities

Internal auditing is an independent, objective assurance and consulting activity designed to add value to and improve an organisation's operations. The internal auditor serves the management team of the organisation, and career opportunities exist in most large organisations, as well as in the public and private sectors.

### Remarks

This programme will be offered on a full-time basis and during the day only.

### Prerequisites

The student may only follow the second-year level of study on condition that the first-year level has been successfully completed.

The student may only follow the third-year level of study on condition that the second-year level has been successfully completed.

The Academic Literacy and Communication Studies programme 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 re-register for instructional offering A in a subsequent semester.

No student will be allowed to graduate without completing the Academic Literacy and Communication Studies programme and the Personal Information Management programme.

### Instructional offerings

Accounting Software I

Auditing II

Business Information Systems I (Semester 2)

Taxation I

Management Accounting III

Internal Auditing III

Business Information Systems II (Semester 2)

### Prerequisite instructional offerings:

Financial Accounting I

Financial Accounting I

Business Information Systems I  
(Semester 1)

Financial Accounting I

Cost Accounting II

Auditing II

Business Information Systems II (Semester 1)

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
REK11CB	REK12CB	Financial Accounting I
COM11AB		Communication I
BCL11AB		Business Calculations I
	EVG12AB	Entrepreneurial Skills I
BIS11AB	BIS12AB	Business Information Systems I
EKN11EB	EKN12EB	Economics I
	KRK12AB	Cost Accounting I
	CLA12AB	Commercial Law for Accountants I
PRE1A		English Proficiency and
PRE2B		English Proficiency
PIM5011		Personal Information Management
2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	

REK21CB	REK22CB	Financial Accounting II
KRK21AB	KRK22AB	Cost Accounting II
ATS11AB	ATS12AB	Accounting Software I
CLA21AB	CLA22AB	Commercial Law for Accountants II
ODT21BB	ODT22BB	Auditing II
	BEL12BB	Taxation I
3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
BEL21BB	BEL22BB	Taxation II
BIS21AB	BIS22AB	Business Information Systems II
CRP21AB		Corporate Procedures II
	STC22AB	Statistics II
REK31CB	REK32CB	Financial Accounting III
IDT31DB	IDT32DB	Internal Auditing III

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: INTERNAL AUDITING						BRBTIA
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<ul style="list-style-type: none"> <li>National Diploma: Internal Auditing passed with a minimum average of 55%.</li> </ul>						
<b>Career Opportunities</b>						
<p>Internal auditing is an independent, objective assurance and consulting activity designed to add value to and improve an organisation's operations. The internal auditor serves the management team of the organisation, and career opportunities exist in most large organisations, as well as in the public and private sectors.</p>						
<b>Remarks</b>						
The learning programme is offered on a full-time basis. Some lectures may be presented in the evenings.						
<b>Prerequisites</b>						
The student may only follow the second-, third- or fourth-year level of study on condition that the first-, second- or third-year level respectively has been successfully completed.						

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
	FNB42BB	Financial Management IV
IDT41AB	IDT42AB	Internal Auditing IV
BSR31AB	BSR32AB	Management Accounting III
IRG11BB		International Law I
NMT11BB		Research Methodology I
BNE41AB		Business Ethics IV
	RSP42AB	Research Project
MCS21AB		Advanced Management Communication Skills II
	ISA42AB	Information Systems Auditing IV

# DEPARTMENT OF BUSINESS MANAGEMENT

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## Qualification & Code

DIPLOMA: HUMAN RESOURCES MANAGEMENT

DP\_HRM

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 years	Semester 1 & 2	384	6	Senior Certificate or equivalent qualification	Selection

## Career Opportunities

Human resources development practitioner, human resources manager, Employment/Labour relations specialist, Human Resources Management (HRM) or Human Resources Development (HRD) specialist.

## Remarks

A re-curriculated version the Diploma Human Resources Management was implemented for first-year students in 2017. Only third-year students of the National Diploma Human Resources Management will be allowed to continue with the old programme as part of the phasing out process.

Subjects	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	Credits
<b>1<sup>st</sup> YEAR</b>			
Academic Literacy and Communication Studies	LCS5011C	LCS5012C	12
Digital Literacy		DL142C	6
Mathematics for Business		MFB142C	6
Quantitative Techniques I	KWN115C	KWN125C	24
Accounting for HR Practitioners I	ACC115C	ACC125C	24
Human Resource Management I	HRM115C	HRM125C	24
Labour Law	ARG115C	ARG125C	24
Business Management I	BMI115C	BMI125C	24
Personal Information Management	PIM5011	PIM5012	0
<b>2<sup>nd</sup> YEAR</b>			
Business Management II	BMI216C	BMI226C	24

Human Resource Management II	HRM216C	HRM226C	24
Industrial Relations I	IRS116C	IRS126C	24
Management of Training I	MOT116C	MOT126C	24
Human Resource Information System II	HRIS116C	HRIS126C	24
<b>3<sup>RD</sup> YEAR</b>			
Human Resources Management III	HRM316C	HRM326C	24
Business Management III	BMI316C	BMI326C	24
Industrial Relations II	IRS1216C	IRS1226C	24
Management of Training II	MOT216C	MOT216C	24
Work Integrated Learning	WIL116C	WIL126C	24

<b>3<sup>RD</sup> YEAR NATIONAL DIPLOMA: HUMAN RESOURCES MANAGEMENT</b>			<b>BNDHL</b>
Human Resources Management III	PBS30CB	PBS30CB	24
Business Management III	OND30AB	OND30AB	24
Industrial Relations II	NYW20AB	NYW20AB	24
Management of Training II	OBS20AB	OBS20AB	24

<b>Qualification &amp; Code</b>						
<b>DIPLOMA: MARKETING</b>						<b>BBNDBR</b>
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 years	Semester 1	372	6	National Senior Certificate or equivalent qualification	Selection
<b>Career Opportunities</b>						
Marketer, marketing manager, sales manager, advertising manager, marketing researcher, export agent, export manager, employee in the international division of a bank.						
<b>Remarks</b>						
A re-curriculated version, the Diploma Marketing Management, has been implemented for first-year students in 2017. Only third-year students of the National Diploma Marketing Management will be allowed to continue with the old programme as part of the phasing out process.						

1 <sup>ST</sup> YEAR	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	Credits
Marketing I	MRK115C	MRK125C	24
Personal Selling	PSE115C	PSE125C	24
Business Management 1	BMI115C	BMI125C	24
Economics I	EKN11EB	EKN12EB	24
Academic Literacy and Communication Studies	LCS5011	LCS5012	12
Mathematics for Business		MFB122	6
Digital Literacy		DLC5012	6
Personal Information Management	PIM5011	PIM5012	0
<b>2<sup>ND</sup> YEAR</b>			
Marketing 2 or	MRK215E	MRK225E	24
International Marketing 2	IBM215E	IBM225E	

Consumer Behaviour 2 or International Business Management 2	CBE215E INB215E	CBE225E INB225E	24
Quantitative Techniques 2	QTH115C	QTH125C	24
Accounting for Marketers 1	ACM115C	ACM125C	24
Mercantile Law	HRG11AB	HRG12AB	24
Work Integrated Learning (WIL) for Marketing		MKT125W	12

NATIONAL DIPLOMA: MARKETING			BBNDBR
3 <sup>RD</sup> YEAR			
Marketing 3 or International Marketing 3		BMR30CB IBM30BB	24
Sales Management 3 or International Finance 3		VBS30CB IFN30AB	24
Advertising & Sales Promotion I		RKL10CB	24
Marketing Research III		MRK30BB	24
Work Integrated Learning (WIL) for Marketing		EXL12ZB	24
English (Language X)		ENS11BB	12

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: HUMAN RESOURCES MANAGEMENT						BPBTHR
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein, Welkom and Kimberley	1 year	Semester 1	132	7	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b> A minimum of 60% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.</p> <p><b>For candidates who matriculated in 2007 or before:</b></p> <ul style="list-style-type: none"> <li>■ Appropriate M+3 qualification with at least:</li> <li>■ Industrial Relations and Management of Training at second-year level; and</li> <li>■ Human Resources Management and Business Management at third-year level.</li> <li>■ A candidate should have an average percentage of at least 60% for final year instructional offerings in their National Diploma: Human Resources Management</li> </ul> <p><b>For candidates who completed the NSC in 2008 and thereafter:</b></p> <ul style="list-style-type: none"> <li>■ National Diploma: Human Resources Management, or equivalent qualification, with the specific prescribed instructional offerings as stipulated above.</li> <li>■ A candidate should have an average percentage of at least 60% for final year instructional offerings in their National Diploma: Human Resource Management.</li> </ul>						
<p><b>Career Opportunities</b> Human resources development officer, human resources manager, industrial relations specialist, training specialist.</p>						
<p><b>Remarks</b> The BTech: HR will be replaced by Advanced Diploma: HR and a Post Graduate Diploma: HR as soon as all the processes are completed.</p>						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
GNV40AB	Advanced Industrial Relations IV
AMT40AB	Advanced Management of Training IV
GSB40BB	Advanced Strategic Management IV
APM40AB	Human Resources Management IV
ORG40BB	Organisational Behaviour IV
NMT10AB	Research Methodology

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: MARKETING						BBBTMQ
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b> A minimum of 60% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.</p> <p><b>For candidates who matriculated in 2007 or before:</b></p> <ul style="list-style-type: none"> <li>National Diploma: Marketing, or equivalent M+3 qualification.</li> </ul> <p><b>For candidates who completed the NSC in 2008 and thereafter:</b></p> <ul style="list-style-type: none"> <li>National Diploma: Marketing, or equivalent qualification, with appropriate instructional offerings.</li> </ul>						
<p><b>Career Opportunities</b></p> <p>Marketer, marketing manager, sales manager, advertising manager, marketing researcher, export agent, export manager, employee in the international division of a bank.</p>						
<p><b>Remarks</b></p> <p>The BTech: Marketing will be replaced by an Advanced Diploma Marketing and a Post-Graduate Diploma Marketing as soon as all the processes are completed.</p>						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
GBV40AB	Advanced Marketing Finance IV
MAR40AB	Marketing IV
TBE40AB	Applied Marketing IV
EKN20CB	Economics II
NMT10AB	Research Methodology

DEPARTMENT OF BUSINESS SUPPORT STUDIES	
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Qualification & Code						
NATIONAL DIPLOMA: OFFICE MANAGEMENT AND TECHNOLOGY						BSNDTD
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	3 years	Semester 1	360	6	Senior Certificate or equivalent qualification	Selection
<b>Career Opportunities</b>						
Secretary, data processor, administrative assistant, management assistant, personal assistant, legal secretary, personnel officer, administrative officer, administrative office manager.						

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings:			
IAD10AS			Information Administration I
SAD10BS			Business Administration I
KOI10AS			Kommunikasie I or
COM10AS			Communication I
ERV10ZB			Work-Integrated Learning
PRE1A (Sem 1)			English Proficiency (Semester 1) and
PRE2B (Sem 2)			English Proficiency (Semester 2)
Optional instructional offerings:			
Any one of the following:			
PBS10CB			Human Resources Management I
RGP10AB			Legal Practice I
Compulsory instructional offerings:			
	IAD20AS		Information Administration II
	SAD20BS		Business Administration II
	KOI20AS		Kommunikasie II or
	COM20AS		Communication II
	ERV20ZB		Work-Integrated Learning II
Any one of the following not previously taken:			
	PBS10CB		Human Resources Management I
	RGP10AB		Legal Practice I

1 <sup>ST</sup> YEAR	2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
Compulsory instructional offerings:			
		IAD30AS	Information Administration III
		SAD30BS	Business Administration III

		ERV30ZS	Work-Integrated Learning III
Any two of the following not previously taken:			
		PBS10CB	Human Resources Management I
		PBS20CB	Human Resources Management II
		RGP10AB	Legal Practice I
		RGP20AB	Legal Practice II

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: BUSINESS ADMINISTRATION						BBBTAS
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	2 years	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b></p> <p>A minimum of 55% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.</p> <p><b>For candidates who matriculated in 2007 or before:</b></p> <ul style="list-style-type: none"> <li>■ Approved M+3 or equivalent qualification.</li> <li>■ Industry experience of at least six months is recommended.</li> </ul> <p><b>Career Opportunities</b></p> <p>Divisional manager, information systems officer, human resources practitioner, purchaser, asset control clerk/assistant, debtor/creditor.</p> <p>The aim of the programme is to provide practical and academically based professional training for current and aspiring managers in the field of business practice, as well as all functional aspects of management.</p> <p><b>Remarks</b></p> <p>All instructional offerings are compulsory, and any application for subject recognition will be considered ONLY for subjects completed at BTech or equivalent level, not lower.</p>						

YEAR ONE		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
FBS41AB		Management Practice IV
(NEW)41AB		Entrepreneurship IV
BIN21AB		Management Information Systems II
	BBS32AB	Marketing Management III
	BSE32AB	Management Economics III

YEAR TWO		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
HLP21AB		Human Resources Management II
(NEW)41AB		Quantitative Methods for Managers
(NEW)41AB	(NEW)42AB	Business Research Methodology IV
	FNB42BB	Financial Management IV

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: OFFICE MANAGEMENT AND TECHNOLOGY						BSBTSJ
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b> A minimum of 55% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.</p> <p><b>For candidates who matriculated in 2007 or before:</b></p> <ul style="list-style-type: none"> <li>■ National Diploma: Office Management and Technology or equivalent M+3 qualification.</li> </ul> <p><b>For candidates who completed the NSC in 2008 and thereafter:</b></p> <ul style="list-style-type: none"> <li>■ National Diploma: Office Management and Technology, or equivalent qualification, with appropriate instructional offerings.</li> </ul> <p><b>Career Opportunities</b> Secretary, data processor, administrative assistant, management assistant, personal assistant, legal secretary, personnel officer, administrative officer, administrative office manager.</p>						

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
IAD40AB	Information Administration IV
SAD40AB	Business Administration IV
ARB10AB	Labour and Immaterial Law I
KGA10AB	Office Administration: Behavioural Aspects I
NMT10AB	Research Methodology I

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: PROJECT MANAGEMENT						BEPTPJ
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein and Welkom	2 years (part-time contact only)	Semester 1	132	7	See below: Additional Admission Requirements.	Selection
<p><b>Additional Admission Requirements</b> A minimum of 55% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.</p> <ul style="list-style-type: none"> <li>■ Appropriate SAQA-accredited M+3 qualification (NQF level 7 – matriculated in or after 2008 or 6 matriculated in or before 2007) or RPL (only for admission to the programme.)</li> <li>■ Industry experience of at least two years is required.</li> <li>■ Applicants with higher qualifications and more than the minimum two years of working experience will be given first preference.</li> <li>■ Academic performance as reflected in academic record will be used for selection.</li> <li>■ The programme requires computer literacy, particularly in Microsoft Word and Microsoft Excel, and therefore applicants must be competent in such software.</li> <li>■ No credit transfers are allowed. Students must register for and pass all programme subjects/modules.</li> <li>■ RPL applicants must submit their applications no later than June, as this process can take considerable time. No late RPL applications will be accepted.</li> </ul>						

### Career Opportunities

Project Manager, Planner, Leader, Administrator, Co-ordinator, Consultant, Team Leader.

The aim of the programme is to provide the qualified student with the necessary skills to initiate, plan, execute, control and terminate a project.

YEAR ONE		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
PKB41AB	PKB42AB	Project Management Process IV
SBE41AB		Strategic Management IV
	ENT42AB	Entrepreneurship IV
YEAR TWO		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
PKG41AB		Project Quality IV
PKN41AB	PKN42AB	Project Research IV
	PHB42AB	Project Resources IV
ONV41AB		Operational Research IV
	PKA42AB	Project Accounting IV

## DEPARTMENT OF GOVERNMENT MANAGEMENT

### Head of Department:

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### Programme coordinator: Higher Certificate

#### Community Development Work

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### Qualification & Code

#### HIGHER CERTIFICATE: COMMUNITY DEVELOPMENT WORK

HCCDWG

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time and 2 years part-time	Semester 1	120	5	National Senior Certificate/ NSC or equivalent qualification. Candidates may be required to write a selection test.	Selection

### Additional Admission Requirements

A National Senior Certificate or equivalent qualification is required for admission.

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

Candidates with a CUT score lower than 27 May be subject to a selection process based on a minimum number of points to be scored on the CUT scoring scale.

#### **For candidates who matriculated in 2007 or before:**

- In addition to the general admission requirements, a mark of 50% for English 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 English is required.

#### **Pre-requisites**

- Academic Literacy and Communication Studies requires the successful completion of two instructional offerings, A and B in this specific order.
- A distinction (75% or more) in instructional offering A ensures exemption from instructional offering B. A pass (without distinction) means that the student must pass instructional offering B in order to meet the pre-requisite for the learning programme. Failing instructional offering A means that the student must register for instructional offering A in a subsequent semester.
- No student will be allowed to graduate without completing the Academic Literacy and Communication Studies programme.
- No student will be allowed to graduate without completing Information Literacy (PIM5011)

### Career Opportunities

The aim of the programme is to provide qualified students with the necessary skills to integrate generic community development knowledge and skills, in an effective manner, to promote ethical and professional community development work in practice. The range of subjects in the qualification will allow the learner to gain knowledge relating to community development worker careers in a wide range of sectors such as sustainable community development (administration), rural and urban development, local government Integrated Development Planning (IDP's) and Local Economic Development (LED) initiatives, administration and governance of sustainable development projects, human settlements and community health issues such as HIV/AIDS.

### Remarks

All instructional offering are compulsory.

After successful completion of this qualification, the higher certificate will be awarded during an official graduation ceremony at CUT.

This programme will be offered on a full-time basis and on a part-time basis over a period of 1 year. Or 2 years part-time if a part-time student wishes to do the course over a period of 2 years. Although time table makes provision for part-time to complete it in 1 year.

The programme could also be offered on a block-release basis.

1 <sup>ST</sup> YEAR (Full-time and part-time)		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
LCS5011	LCS5012	Academic Literacy and communication studies	12
NMR11AB		Numeracy	6
DGL11AB		Digital Literacy	6
PDP11AB	PDP12AB	Participative Development Practices	16
SDT11AB	SDT12AB	Sustainable Development Theory	16
LMP11AB		Legislation and Municipal Processes	16
	POP12AB	Project Management	16
	ERD12AB	Ethics Rights and Democracy	16
	WIL12AB	Work-integrated Learning	16
PIM5011		Information Literacy	-

If a part-time student wishes to do the course over 2 years:

1ST YEAR (Part-time)		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
LCS5011	LCS5012	Academic Literacy and communication studies	12
NMR11AB		Numeracy	6
DGL11AB		Digital Literacy	6
PDP11AB	PDP12AB	Participative Development Practices	16
	POP12AB	Project Management	16
PIM5011		Information Literacy	-

2 <sup>ST</sup> YEAR (Part-time)		INSTRUCTIONAL OFFERINGS	CREDITS
SEMESTER 1	SEMESTER 2		
SDT11AB	SDT12AB	Sustainable Development Theory	16
LMP11AB		Legislation and Municipal Processes	16
	ERD12AB	Ethics Rights and Democracy	16
	WIL12AB	Work-integrated Learning	16

Qualification & Code						
DIPLOMA: PUBLIC MANAGEMENT						DP_PBM
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years full and part-time	Semester 1	360	6	Senior Certificate / NSC or equivalent qualification	Selection
<b>Additional Admission Requirements</b>						
A Senior Certificate or equivalent qualification is required for admission.						
Applications in possession of the National Certificate Vocational (NVC) will be selected according to the selection requirements as approved by Senate.						
Candidates with a CUT score lower than 27 may be subject to a selection process based on a minimum number of points to be scored on the CUT scoring scale.						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a mark of 50% for English is required.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ In addition to the general admission requirements, a minimum mark of 50% in English is required.</li> </ul>						
<b>Pre-requisites</b>						
If a student fails a specific module, the module must first be repeated in the next year (in the semester in which the module is presented). The student may continue with the next years' modules, with the condition that the student first repeat the modules previously failed. No student will be allowed to register for more than five modules per semester except for the students who applied for subject recognition.						
<b>Career Opportunities</b>						
Public sector positions in the fields of General Management, Financial Management, Human resources Management and the political milieu (i.e. national, Regional and Local Government). Owing to the wide variety of duties and activities in the public sector, public functionaries are employed at institutions throughout the country. There are several fields of interest, including auditing, financial and procurement management, human resources management, office management, project management, and governmental relations.						

## Remarks

All new first-year students may register for this programme during 2017.

All instructional offerings are compulsory.

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

This programme will be offered on a full-time basis and part-time basis over a period of 3 years.

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

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

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

No student will be allowed to graduate without completing Information Literacy (PIM5011).

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
PEM11AB		Public Resource Management I
PTS11AB		Public Information Services I
POM11AB		Public Office Management and Customer Services I
	PDM12AB	Public Decision-Making I
	PSD12AB	Local Government Service Delivery Management I
	SLM12AB	Self-Management I
LCS5011	LCS5012	Academic Literacy and Communication Studies
PIM5011		Information Literacy
NMR11AB		Numeracy

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
PFM21AB		Public Financial Management II
PAM21AB		Public Administration and Management II
PHR21AB		Public Human Resource Management II
	INC22AB	Intersectoral Collaboration
	POB22AB	Public Project Management II
	PLM22AB	Procurement and Supply Chain Management II

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS
SEMESTER 1	SEMESTER 2	
PAM31AB		Public Administration Management III
FPM31AB		Financial and Procurement Management III
PHR31AB		Public Human Resource Management III
	PCS32AB	Policy Studies III
	PMP32AB	Public Management Practice and Work Integrated Learning III
	PGB32AB	Programme Management III

## Qualification & Code

BACCALAUREUS TECHNOLOGIAE: PUBLIC MANAGEMENT

BOBTPA

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year full-time and part-time	Semester 1	120	7	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

A minimum of 55% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications is included in the B Tech Public Management.

#### For candidates who matriculated in 2007 or before:

- National Diploma: Public Management or equivalent M+3 qualification, with appropriate instructional offerings. Due to a limited number of students than can be accommodated, applicants with an equivalent qualification must have at least three years working experience in the public sector.

#### For candidates who completed the NSC in 2008 and thereafter:

- National Diploma: Public Management, or equivalent qualification, with appropriate instructional offerings. Due to a limited number of students than can be accommodated, applicants with an equivalent qualification must have at least three years working experience in the public sector.

### Career Opportunities

Public sector positions in the fields of General Management, Financial Management, Human Resources Management and the political milieu (i.e. national, Regional and Local Government). Owing to the wide variety of duties and activities in the public sector, public functionaries are employed at institutions throughout the country. There are several fields of interest, including auditing, financial and procurement management, human resources management, office management, project management, and governmental relations.

### Remarks

- The prescribed six instructional offering are compulsory. This learning programme is presented in the evenings only.
- This programme will be offered on a full-time basis and part-time basis over a period of 1 year.
- This learning programme is presented in the evenings only – full-time students must enrol as a full-time student.
- After successful completion of this qualification, a Baccalaureus Technologiae degree will be awarded during an official graduation ceremony at CUT.

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERING
SEMESTER 1	SEMESTER 2	
PAC41AB		Public Accountability IV
PPM41AB		Public Policy Management IV
PHR41AB		Public Human Resource Management IV
	RIM42AB	Research and Information Management IV
	GVR42AB	Governmental Relations IV
	SUM42AB	Strategic Public Management IV

## DEPARTMENT OF HOSPITALITY MANAGEMENT (HOTEL SCHOOL)

### Acting Head of Department:

Ms Dalene Crowther

### Secretary: Ms L Posthumus

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### Qualification & Code

DIPLOMA: HOSPITALITY MANAGEMENT

BGNDGC

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	Senior Certificate or equivalent qualification.	Selection and interview

### Additional Admission Requirements

#### *For candidates who matriculated in 2007 or before:*

- In addition to the general admission requirements, a minimum mark of 50% in one of the following subjects is recommended: Accounting, Mathematics, Business Economics, Economics, Mercantile Law, Hotel-keeping & Catering, or Home Economics. Candidates with 32 points or more on the CUT scoring scale will be automatically admitted to this programme. Due to the relatively high demand for places in this programme, no applicant with a score lower than 24 on the CUT scoring scale will be considered for selection (RPL cases excluded.)

#### *For candidates who completed the NSC in 2008 and thereafter:*

- In addition to the general admission requirements, a candidate will also be subject to a selection test and an interview. Consumer Science, Hospitality Studies, Accounting or Business Studies is recommended. Candidates with 32 points or more on the CUT scoring scale will be automatically admitted to the programme, subject to any other conditions that may apply. Due to the relatively high demand for places in this programme, no applicant with a score lower than 24 on the CUT scoring scale will be considered for selection (RPL cases excluded.) Candidates who score between 25-32 are invited for an interview and psychometric test.

### Career Opportunities

A qualification in Hospitality Management opens doors to worldwide career opportunities as hotel manager, front-office manager, banqueting manager, food and beverage manager, restaurateur, caterer, entrepreneur, guest-house manager or owner, coffee shop manager or owner, chef and many others.

### Remarks

A re-curriculated version the Diploma Hospitality Management was implemented for first-year students in 2017. Only second and third year students of the National Diploma Hospitality Management will be allowed to continue with this programme as part of the phasing out process.

Phasing out of former National Diploma Hospitality Management (second and third-year students only)

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS
January	July	
GAE21ZT		Hospitality Management Work-integrated Learning II
HFM21AT OR	HFM22AT	Hospitality Financial Management II
	HIL12AT	Hospitality Industry Law I
GAB21AT OR	GAB22AT	Hospitality Management II
	GAI22AT	Hospitality Information Systems II
	KOM22AT	Hospitality Communication II
	CSN22AT	Culinary Studies & Nutrition II
	STU22AT	Food and Beverage Studies II
ACM21AT OR	ACM22AT	Accommodation Management II

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS
January	July	
GAE31ZT OR	GAE32ZT	Hospitality Management Work-integrated Learning III
HFM31AT OR	HFM32AT	Hospitality Financial Management III
HIL21AT		Hospitality Industry Law II
GAB31AT OR	GAB32AT	Hospitality Management III
HMI11AT		Hospitality Management Information Systems I
HPM11AT		Hospitality Event Management I
ACM31AT OR	ACM32AT	Accommodation Management III

New Re-curriculated Diploma Hospitality Management.

Qualification & Code						
DIPLOMA: HOSPITALITY MANAGEMENT						BGBTHB
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	360	6	See below: Additional Admission Requirements.	Selection and interview
<b>Additional Admission Requirements</b>						
<b><i>For candidates who matriculated in 2007 or before:</i></b>						
In addition to the general admission requirements, a minimum mark of 50% in one of the following subjects is recommended: Accounting, Mathematics, Business Economics, Economics, Mercantile Law, Hotel-keeping & Catering, or Home Economics. Candidates with 32 points or more on the CUT scoring scale will be automatically admitted to this programme. Due to the relatively high demand for places in this programme, no applicant with a score lower than 25 on the CUT scoring scale will be considered for selection (RPL cases excluded.)						
<b><i>For candidates who completed the NSC in 2008 and thereafter:</i></b>						
In addition to the general admission requirements, a candidate will also be subject to a selection test and an interview. Consumer Science, Hospitality Studies, Accounting or Business Studies is recommended. Candidates with 32 points or more on the CUT scoring scale will be automatically admitted to the programme, subject to any other conditions that may apply. Due to the relatively high demand for places in this programme, no applicant with a score lower than 25 on the CUT scoring scale will be considered for selection (RPL cases excluded.) Candidates who score between 27-32 are invited for an interview and psychometric test.						
<b>Career Opportunities</b>						
A qualification in Hospitality Management opens doors to worldwide career opportunities as hotel manager, front-office manager, banqueting manager, food and beverage manager, restaurateur, caterer, entrepreneur, guest-house manager or owner, coffee shop manager or owner, chef and many others.						
<b>Remarks</b>						
New Diploma Hospitality Management.						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	Credits
Semester 1	Semester 2		
AMT11AT	AMT12AT	Accommodation Management I: Theory	10
AMP11AT	AMP12AT	Accommodation Management I: Practical	10
LCS5011	LCS5012	Academic Literacy and communication studies	12
CST11AB	CST12AB	Culinary Studies: Theory I	10
CSP11AB	CSP12AB	Culinary Studies: Practical I	10
HMM11AT	HMM12AT	Hospitality Management I	18
	DLC5012	Digital Literacy	6
HFM11AT	HFM12AT	Hospitality Financial Management I	16
HHS11AT	HHS12AT	Hospitality Health and Safety I	6
FBS11AT	FBS12AT	Food and Beverage Studies: Theory I	10
FBS11AP	FBS12AP	Food and Beverage Studies: Practical I	10
ITW11BV	ITW12BV	Introduction to Wine (short course)	6
FSA10BV		First Aid (short course)	2
KNF11BV		Knife Set	
UFM11BV		Uniform	
NMR5011	NMR5012	Numeracy	6
PIM5011		Information Literacy	

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	Credits
Semester 1	Semester 2		
HSM11W		Hospitality Management Work-integrated Learning II	60
	HFM22AT	Hospitality Financial Management II	6
	HIL12AT	Hospitality Industry Law I	4
	HMM22AT	Hospitality Management II	6
	HIS12AT	Hospitality Information Systems II	4
	HCM12AT	Hospitality Communication II	4
	CSN22AT	Culinary Studies & Nutrition II	12
	FBV22TP	Food and Beverage Studies II	12
	ACM22AT	Accommodation Management II	14
	HSE12AT	Hospitality Service Excellence	6
	HMK12AT	Hospitality Marketing I	4

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	Credits
Semester 1	Semester 2		
HFM31AT		Hospitality Financial Management III	6
HIL21AT		Hospitality Industry Law II	4
HMM31AT		Hospitality Management III	6
HIS21AT		Hospitality Management Information Systems III	4
EMM11TP		Event Management I	24
ACM31AT		Accommodation Management III	14
HMK21AT		Hospitality Marketing II	4
HMD11AT		Hospitality Media I	4
	HSM22W	Hospitality Management Work-integrated Learning III	60

### Qualification & Code

BACCALAUREUS TECHNOLOGIAE: HOSPITALITY MANAGEMENT

BGBTHB

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection

### Additional Admission Requirements

National Diploma: Hospitality Management or equivalent qualification. A minimum average of 60% for final year instructional offerings.

### Career Opportunities

A qualification in Hospitality Management opens doors to worldwide career opportunities as a hotel manager, front-office manager, banqueting manager, food and beverage manager, restaurateur, caterer, entrepreneur, guest-house manager or owner, coffee shop manager or owner, chef, lecturer and many others.

4 <sup>TH</sup> YEAR		INSTRUCTIONAL OFFERINGS
NMD20AT		Research Methodology II
HIL30AT		Hospitality Industry Law III
HFM40AT		Hospitality Financial Management IV
SHG40AB		Strategic Hospitality Management IV
SHM40AB		Strategic Hospitality Marketing IV

# DEPARTMENT OF TOURISM AND EVENT MANAGEMENT

**Head of Department:**

Dr R Haarhoff

**Secretary: Ms M Raad**

Tel.: 051 507 3849 | Fax: 051 507 3363 | E-mail: kraad@cut.ac.za

## Qualification & Code

NATIONAL DIPLOMA: TOURISM MANAGEMENT

BTNDTA

Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	See below: Additional Admission Requirements.	Selection and interview

### Additional Admission Requirements

#### *For candidates who matriculated in 2007 or before:*

- A candidate must score at least 28 or more points on the CUT scoring scale. Every applicant must write a scholastic aptitude test and undergo an interview. Due to the relatively high demand for places in this programme, a candidate who scores less than 24 points on the CUT scoring scale will not be considered for selection.

#### *For candidates who completed the NSC in 2008 and thereafter:*

- A candidate must score at least 28 or more points on the CUT scoring scale. Every applicant must write a scholastic aptitude test and undergo an interview. Due to the relatively high demand for places in this programme, a candidate who scores less than 24 points on the CUT scoring scale will not be considered for selection.

### Career Opportunities

Successful completion of this qualification open doors into the tourism industry as a: tour operator, travel agent, different positions in the airline industry, tourism marketer, event and conference organiser/manager, car-rental agent, tourism official, government employee or teacher. Guesthouses, hotels, lodges, resorts, guest farms and nature reserves also offer employment opportunities.

### Remarks

A re-curriculated version of the National Diploma Tourism Management was implemented for first-year students in 2017 (see below). Only second and third year students of the National Diploma Tourism Management will be allowed to continue with this programme as part of the phasing out process.

### Additional courses (non-compulsory)

Galileo	First Aid
Adventure Tourism (levels 1 and 2)	SA Host
Cape Wine Academy course	

Phasing out of former National Diploma Tourism Management (second and third-year students only)

2 <sup>ND</sup> YEAR	3 <sup>RD</sup> YEAR	INSTRUCTIONAL OFFERINGS
TRO20AS		Tourism Development II
RTB20AS		Travel and Tourism Management II
RTP20AS		Travel and Tourism Practice II
BET20AS		Marketing for Tourism II
MED10AS		Media and Public Relations: Tourism I
GEB10AS		Event Management I
GAS10AS		Hospitality Operations I
	TRO31AS	Tourism Development III
	RTB31AS	Travel and Tourism Management III
	RTP31AS	Travel and Tourism Practice III
	PTM22AS	Tourism Management Practice II

## New qualification Diploma Tourism Management

Qualification & Code						
DIPLOMA: TOURISM MANAGEMENT						
Campus	Duration of Programme	Enrolment Option(s)	SAQA Credits	NQF Level	Admission Requirements	Selection and/or interview
Bloemfontein	3 years	Semester 1	360	6	See below: Additional Admission Requirements.	Selection and interview
<b>Additional Admission Requirements</b>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ A candidate must score at least 28 or more points on the CUT scoring scale. Every applicant must write a scholastic aptitude test and undergo an interview. Due to the relatively high demand for places in this programme, a candidate who scores less than 24 points on the CUT scoring scale will not be considered for selection.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ A candidate must score at least 28 or more points on the CUT scoring scale. Every applicant must write a scholastic aptitude test and undergo an interview. Due to the relatively high demand for places in this programme, a candidate who scores less than 24 points on the CUT scoring scale will not be considered for selection.</li> </ul>						
<b>Career Opportunities</b>						
Successful completion of this qualification open doors into the tourism industry as a: tour operator, travel agent, different positions in the airline industry, tourism marketer, event and conference organiser/manager, car-rental agent, tourism official, government employee or teacher. Guesthouses, hotels, lodges, resorts, guest farms and nature reserves also offer employment opportunities.						
<b>Remarks</b>						
This re-curriculated version of the National Diploma Tourism Management was implemented in 2017. Only second-year students of the Diploma Tourism Management will be allowed to register for this qualification.						
Additional short courses (non-compulsory)						
Galileo						
First Aid						
Adventure Tourism						
Cape Wine Academy						
SA Host						

1 <sup>ST</sup> YEAR		INSTRUCTIONAL OFFERINGS	Credits
Semester 1	Semester 2		
LCS5011	LCS5012	Academic Literacy and communication studies	6
		Tourism Development I	18
		Travel and Tourism Management I	18
		Travel and Tourism Practice I	18
		Tourism Marketing I	18
		German I or	12
		French I	
		Spanish I	
PRE1A	PRE2B	English Proficiency	
		Tourism Financial Management I	12
		Event Management I	6
		Tourism Industry Law I	6
DGL11AB		Digital Literacy	6

	*	Advanced Digital Literacy	6
NMR11AB		Numeracy	6
PIM5011		Information Literacy	

2 <sup>ND</sup> YEAR		INSTRUCTIONAL OFFERINGS	Credits
Semester 1	Semester 2		
TOD216E	TOD226E	Tourism Development II	24
TOM216E	TOM226E	Travel and Tourism Management II	12
TOP216E	TOP226E	Travel and Tourism Practice II	24
TMR216E	TMR226E	Tourism Marketing II	18
TFM216E	TFM226E	Tourism Financial Management II	12
TSE115E		Tourism Service Excellence I	6
COM115E	COM125E	Tourism Media and Communication I	12
EVM216E	EVM226E	Event Management II	12
	HOT125E	Hospitality Operations I	6

3 <sup>RD</sup> YEAR		INSTRUCTIONAL OFFERINGS	Credits
Semester 1	Semester 2		
		Tourism Development III	12
		Travel and Tourism Management III	12
		Travel and Tourism Practice III	12
		Tourism Management Work Integrated Learning I	60
		Galileo (elective)	16
		Tourism Marketing III	12
		Business Administration I	6
		Culture Studies I	4
		Hospitality Operations II	6

Qualification & Code						
BACCALAUREUS TECHNOLOGIAE: TOURISM MANAGEMENT						SSBTRI
Campus	Duration of Programme	Enrolment Option(s)	SAGA Credits	NQF Level	Admission Requirements	Selection and/or Interview
Bloemfontein	1 year	Semester 1	120	7	See below: Additional Admission Requirements.	Selection
<b>Additional Admission Requirements</b>						
<i>A minimum of 55% achieved in all major subjects on third-year level is compulsory for admission to all Baccalaureus Technologiae qualifications.</i>						
<b>For candidates who matriculated in 2007 or before:</b>						
<ul style="list-style-type: none"> <li>■ National Diploma: Tourism Management or equivalent qualification.</li> </ul>						
<b>For candidates who completed the NSC in 2008 and thereafter:</b>						
<ul style="list-style-type: none"> <li>■ National Diploma: Tourism Management, or equivalent qualification, with appropriate instructional offerings.</li> </ul>						
<b>Career Opportunities</b>						
Successful completion of this qualification open doors into the tourism industry as a: tour operator, travel agent, different positions in the airline industry, tourism marketer, event and conference organiser/manager, car-rental agent, tourism official, government employee or teacher. Guesthouses, hotels, lodges, resorts, guest farms and nature reserves also offer employment opportunities.						

**Remarks**

This re-curriculated version of the National Diploma Tourism Management was implemented in 2017. Only second-year students of the Diploma Tourism Management will be allowed to register for this qualification.

Additional short courses (non-compulsory)

Galileo

First Aid

Adventure Tourism

Cape Wine Academy

SA Host

4 <sup>TH</sup> YEAR	INSTRUCTIONAL OFFERINGS
BET30AS	Marketing for Tourism III
TSM40AT	Advanced Strategic Management IV
NMD10AS	Research Methodology I
TPJ40AS	Tourism Project IV
TRO40AS	Tourism Development IV



# Support Services



# E-Learning and Educational Technology

e-Learning or electronic education is playing an increasingly important role at CUT. Students stand to benefit from this, as the programmes are supplemented by e-learning components. The contents of lectures, projects and assessment are available on the intranet. Thus, by means of computers on campus or at home, students can access the e-learning modules via the internet. In this way, a more inclusive service is provided to our students. e-Learning and educational technology are increasingly being integrated into the presentation of our programmes in order to ensure the best student service possible.

Ethuto: <https://ethuto2.cut.ac.za/>

Helpdesk: <http://www.cut.ac.za/centre-for-e-learning-and-educational-technology-celet/>

## Enquiries

Mr JJC Badenhorst

Tel.: 051 507 3223 | Fax: 051 507 3243 | E-mail: [jbaden@cut.ac.za](mailto:jbaden@cut.ac.za)

# Centre for Work-integrated Learning and Skills Development

## Work-integrated Learning (WIL)

The Centre for Work-integrated Learning and Skills Development assists with the preparation of students for the world of work and establishes mechanisms to increase student placements for Work-integrated Learning, a compulsory practical component of academic programmes.

### The WIL Office is primarily responsible for the following:

- Negotiating suitable placement positions for students with companies and institutions;
- Providing industry information and assistance with the preparation of students for the world of work through information sessions;
- Assisting with the development of methods and processes for monitoring and assessing student performance;
- Setting up and maintaining databases for potential student placement positions;
- Assisting with the drafting of WIL guidelines and programmes (log-books and study guides); and
- Liaising with the various faculties on an ongoing basis to develop effective WIL systems and to address identified needs through workshops and training sessions.

## Enquiries

Mr H Jacobs: Tel.: 051 507 3352 | E-mail: [hjacob@cut.ac.za](mailto:hjacobs@cut.ac.za)

Mr T Seipobne: Tel.: 051 507 3979 | E-mail: [tseipobi@cut.ac.za](mailto:tseipobi@cut.ac.za)

Mrs R Rhode: Tel.: 051 507 3961 | E-mail: [rrhode@cut.ac.za](mailto:rrhode@cut.ac.za)

Mrs A Wheeler: Tel.: 057 9103581 | E-mail: [awheeler@cut.ac.za](mailto:awheeler@cut.ac.za)

# Careers Office

The Careers Office enhances student and graduate employability through a series of meaningful events focusing on development and recruitment issues, ranging from the career development of students to graduate recruitment.

## The following services are offered:

- Job-hunting skills
- Mock Interviews – an opportunity to improve interviewing skills/experience
- Graduate recruitment involving on-campus company presentations, networking events and career fairs
- Distributing career- and job-related information
- Maintaining an employer and student CV database
- Keeping a careers library with e-careers resources (Room 117 Student Academic Support Centre)

## Enquiries:

Bloemfontein Campus | Ms M Bosch | Tel.: 051 507 3721 | E-mail: mbosch@cut.ac.za

Welkom Campus | Ms L Hoare | Tel.: 057 910 3656 | E-mail: lhoare@cut.ac.za

# Student Services

## GENERAL

By means of the education and training provided, CUT aims to prepare students not only for the modern technological world in such a way that they will be able to meet and master the relevant challenges, but also for responsible citizenship.

CUT provides services that remove barriers and create an environment conducive to the conditions and opportunities necessary for students and staff to participate in scholarship. CUT also encourages the development of an environment that embraces various activities and cultures, thus endorsing growth and development outside the classroom.

The term “seamless education” best describes the above.

It is with this aim in view that Student Services endeavours to establish a living and learning environment that integrates a range of curricular and extracurricular activities.

\*Deputy Registrar: Student Services is responsible for the co-ordination of such.

*Deputy Registrar: Student Services	*Student Wellbeing
<ul style="list-style-type: none"> <li>■ Student Governance/SRC</li> <li>■ Student Development</li> <li>■ Student Information</li> <li>■ Student Union</li> <li>■ Student Organisations</li> <li>■ Variety of Cultural Activities</li> <li>■ Recreational Sport</li> <li>■ Mr/Miss CUT</li> <li>■ Carnival</li> <li>■ Residence Life</li> <li>■ Student Discipline</li> </ul>	<ul style="list-style-type: none"> <li>■ Counselling</li> <li>■ Student Selection Support</li> <li>■ Reading Development</li> <li>■ Chaplaincy</li> <li>■ Social Services</li> <li>■ Student Wellness</li> <li>■ Community Outreach Programmes</li> <li>■ Health Services</li> <li>■ Student Applications</li> <li>■ Student Enrolments</li> <li>■ Operational Sport</li> </ul>

## Residence Life

CUT's residences are conveniently situated on or near the campus and offer accommodation in single and double rooms.

The residences are student-friendly and are equipped with, amongst other things, washing machines and tumble-dryers, telephones, televisions and M-Net. Each residence is equipped with self-catering services, but students can also enjoy affordable and balanced meals at the campus cafeteria.

Each residence has its own House Committee to manage the residence in collaboration with the Residence Manager. Social, cultural and sporting activities are held on a regular basis. However, the academic aspect enjoys the highest priority.

Students must apply in good time so as to avoid disappointment.

Address your enquiries to:

Manager: Residence Life

Central University of Technology, Free State (CUT)

Private Bag X20539

Bloemfontein

9300

Tel.: 051 507 3149

## Student Life

Student Services presents various cultural and student development activities on a regular basis. The most important factor is: "Get involved!"

Provision is made in some way or other for the interests of each student. In the academic field, students' interests are further stimulated by existing subject associations in most study fields, which offer interesting activities throughout the year under the protection of a guardian lecturer.

In the cultural arena, there is close liaison with the various arts councils, while students are welcome to join any clubs that may interest them. For students who enjoy dancing, for instance, we offer ballroom and Latin American dancing, while the CUT Revue Group holds regular performances.

The CUT Choir also offers students the opportunity to further develop their musical and singing talents. Other cultural associations include the Drama Association, Voortrekkers, Chess Club and Debating Society, while members of the Columbini Adventure Club regularly go on hiking expeditions. The Women Students' Organisation is dedicated to the needs of our female students, while Club Fortes is there to ensure that all students have an enjoyable social and cultural life. The Student Union has been established to make a positive contribution to a vibrant student life. We also celebrate the richness and diversity of the different cultures on campus during our annual Culture Week.

Young writers can develop their talents further by serving on the editorial staff of the student newspaper, *Speculum*.

**Enquiries:**

Tel.: 051 507 3153

## Student Development and Governance

Student leadership programmes are offered to prepare students for leadership roles and responsibilities on campus and in society at large. We are committed to helping students explore and optimise their leadership potential. Leading students set the standards, and by word and deed also inspire other students to perform better in all aspects of life. Our local community needs citizens who are prepared to make a positive contribution. These opportunities are made possible through the Student Development and Governance Unit, which oversees all choir, drama, chess, dancing and debating activities.

CUT has a diverse community with different backgrounds and traditions. Every year, we set aside one week to celebrate the cultural heritage of all the groups represented on campus. These festivities, which include traditional food, music and dance, are aimed at bridging the cultural gap and helping staff members and students to better understand one another.

**Enquiries:**

Tel.: 051 507 3322

## Wellness Centre

**Bloemfontein:**

Second Floor, Lapeng Student Centre

Manager: Wellness Centre

Mr G Cronje

Tel.: 051 507 3156

## Welkom:

Student Academic Support Building (Block N ) Second floor. Rooms 102, 103 105, 114 - 116.

Manager: Wellness Centre

Dr H Oberholzer

Tel.: 057 9103569

The Centre is responsible for providing a number of comprehensive services, namely health and psychological/counselling services, academic support, reading development, social work services, chaplaincy services, and the selection of prospective students. Psychological and Social Services can be found on the second floor of the Lapeng Student Centre, while the Medical Centre is situated alongside the Welgemoed residence.

## Counselling

### Services to enrolled students

Are your personal problems weighing you down? Are you depressed? Do you lack self-confidence? Are you involved in unhealthy relationships or experiencing domestic problems?

The Wellness Centre will address these personal issues, as well as all stumbling blocks hindering your progress towards achieving academic success at CUT, through individual and/or group counselling sessions. The Centre offers a wide range of life skills programmes, including stress management, assertiveness training and motivation. The Wellness Centre is specifically there for you as a student. The services (as listed below) are provided by registered psychologists, and all information is strictly confidential. If you have any form of personal crisis, you are welcome to visit us. We are here to help you. Services are offered free of charge to all enrolled students on an appointment basis.

### Services offered

- Course information
- Change of course
- Study guidance
- Academic assistance
- Reading development
- Adjustment problems
- Relationship problems
- Personal problems
- Emotional problems
- Dealing with trauma (rape, loss of a loved one, etc.)
- Depression
- Family problems
- Wellness programmes
- Alcohol and drug abuse

## Services to prospective students

Comprehensive career guidance services are offered. The emphasis is on the importance of personal decision-making skills and the associated acceptance of responsibility. The prospective student is, however, supported in this process by professionally qualified staff members who make use of a variety of techniques, including psychometric testing, career information and interviews. A fee will be charged for the career guidance programme. Phone the secretary at 051 5073154 to make an appointment.

## Reading development

The Wellness Centre offers a service aimed at improving the reading and studying techniques of students. The Centre also has four computerised reading laboratories where students can improve their reading and studying techniques with the aid of computerised reading programmes.

The aim is to give students the opportunity to improve their reading speed and reading comprehension as much as possible in a controlled and scientific manner. Reading and study courses are offered on a regular basis, and the service is free of charge.

## Academic support

CUT has various academic support programmes in place, with proven success for those attending regularly. These programmes provide amongst others, study guidance, motivation techniques and exam-writing skills, to mention only a few of the programmes offered. One notable programme is the student peer mentorship programme which was introduced in 2013. The aim of the programme is to provide CUT students with a supportive environment that will motivate and assist them to develop to their maximum personal and academic potential. Mentoring has been found to increase students' academic success, social skills, self-efficacy, and the ability to refine their professional dispositions. Our CUT mentorship programme provides a framework for positive interaction between students, mentors and lecturing staff.

Bloemfontein	Welkom
Prof. Monnapula-Mapesela	Ms Liesl Hoare
Library Information Services	Student Academic Support Centre
Room 310	Room 113/114
Tel: 051 507 3245	057 910 3656

## Chaplaincy services

The spiritual needs of students are critical to us. Students are encouraged to participate in the services that are offered by various churches in collaboration with the Wellness Centre.

The Chaplaincy Office is vested with the Wellness Centre. The aim of this office is to give all denominations and religions the necessary information regarding campus activities for Christian and other faith groups. Students are also motivated to participate in religion-oriented activities. The Office also serves as a refuge where all staff and students can find help and support.

## Social work services

The main task of the social worker is to ensure the social wellbeing of students by promoting a healthy and conducive environment throughout their years of study.

The responsibilities of Social Services are:

- To work in close collaboration with the psychologists, health services staff, residence staff and student accounts staff with respect to the referral of students;
- To organise and conduct information sessions and workshops relating to HIV/AIDS;
- To compile background reports on financially needy students;
- To offer services related to the following:
  - Rape counselling
  - Poverty/financial problems
  - Pre- and post-abortion counselling
  - Bereavement
  - HIV/AIDS
  - Community outreach projects.

## Appointments

All services are confidential and are available free of charge to CUT students on an appointment basis. Appointments must be made with the Secretary at telephone number 051 507 3154.

### Enquiries: Reception

Tel.: 051 507 3154/5/6

## Campus Health Services

Campus Health Services, forming part of the Wellness Centre, has professional nurses, a medical doctor and an HIV/AIDS counsellor on hand to provide medical services to students.

### Appointments

Telephonically at 051 507 3735/3716 or in person at the Medical Centre.

### Clinic location

Behind the Welgemoed residence, alongside the small pedestrian gate leading from President Brand Street.

### Services offered include:

- Voluntary Confidential Counseling and Testing (VCCT)
- Treatment of minor ailments
- Emergencies and referrals
- Blood-pressure screening
- Blood-sugar screening
- Urine analysis

- Pregnancy tests
- Family planning
- Referrals to appropriate medical services
- Health education and advice
- Chronic-disease management and related referrals

These services are available free of charge to registered students, and all information remains strictly confidential.

## Reportable Diseases

In terms of section 45 of the Health Act (1977), certain conditions have been declared reportable. If you should happen to contract one of these specified conditions, please contact Campus Health Services without delay.

### **(TO BE READ IN CONJUNCTION WITH CHAPTER 4 OF THE CUT CALENDAR 2015/2016)**

For any enquiries, please contact the Wellness Centre at 051 507 3154/5/6. All information will be treated with the utmost confidentiality.

## Library and Information Services (LIS)

The mission of Library and Information Services (LIS) is to give the CUT community access to information in support of teaching, learning and research.

In achieving its mission, LIS has the following strategic goals:

- Teaching and learning: The provision and promotion of access to comprehensive and up-to-date information tailored for CUT programmes in order to maintain high student throughput.
- Information skills: The development of academic information skills for students and staff to foster 'access with success' and evolve a culture of independent and lifelong learning.
- Research: The offering of high-quality information resources that will enhance and sustain the research capacity of CUT at all levels.
- Information and communication technology: The adoption of state-of-the-art technologies to ensure that CUT remains at the forefront in terms of managing information, creating gateways to global information and developing an institutional digital repository.
- Partnerships: The forging of partnerships with communities of practice and collaboration with other institutions at local, regional, national and international levels in terms of sharing resources and expertise.
- Quality control and assurance: Compliance with institutional, national and international standards in the management of information resources; maintaining high standards of service, and ensuring cost effectiveness and efficiency in LIS operations.

### Enquiries:

University Librarian: Tel.: 051 507 3146  
 Bloemfontein Library: Tel.: 051 507 3109/ 3143  
 Welkom Library: Tel.: 057 910 3537

The library building on the Bloemfontein campus consists of four floors:

## Ground Floor

The issuing desk, which is situated on the ground floor at the entrance to the library, is where users can borrow and return library material. This section also attends to general enquiries. Security officers monitor and enforce access control, thus ensuring that all users are able to study in a safe environment, even late in the evening.

Current Journal publications are also located on this floor.

Clients Services also provides an interlibrary loan service that assists in finding information sources that are not readily available in the LIS collection. This service is normally available only during office hours from Monday to Friday, although weekend and after-hours arrangements can be made.

Two 24-hour study venues are situated on this level, with seating capacity for approximately 400 students.

## First Floor

This floor houses the main book collection, the research corner, the reference section and a reading corner for leisure reading of items such as novels, which are accessible through the computerised catalogues. The Information Services Section is strategically placed in order to assist all users with locating of information resources.

Printed journals, to which CUT subscribes to, are housed here and may be consulted on-site.

Faculty Librarians are present at all times during office hours. An after-hours a librarian, who is also available on Saturdays, has an office on the second floor to attend to information services queries.

Private study cubicles are also available for limited use by postgraduate students and arrangements can be made at the Library Issue Desk.

Special rooms have been equipped as project rooms, where students can work jointly on special assignments in class groups or individually.

## Second Floor

This floor is divided into four sections, namely the Postgraduate Research Commons, Short Loans Section (lecturers' notes, prescribed textbooks, theses and audiovisual materials), the Journal Collection, and Electronic Resource Access Centre.

- Postgraduate Research Commons is for use by Masters' and Doctoral students and researchers only.
- Short-loan materials are for use exclusively in the library for a period of two hours. Students must produce their student cards, and the materials may be renewed as long as there is no-one else waiting to use a given document. Students can make copies of the library materials at the Xerox Centre downstairs. However they are strongly advised to adhere to copyright law. The library staff can assist when in doubt regarding the application of the copyright law.
- Students can watch VHS or DVD recordings in the library, but are not allowed to remove them from the premises.

- The Electronic Resource Access Centre provides access to 280 computers for academic purposes. Students can log onto the databases to which LIS subscribes to and can also access various Microsoft Office applications. Sixty of these computers form part of two training laboratories where database and internet usage courses are offered, along with information literacy and other programmes.
- LIS also offers access to Wi-Fi hotspots throughout the library, including the 24-hour study venue.

LIS also supports people with disabilities. The Electronic Resource Access Centre and both training laboratories are accessible by students making use of wheelchairs.

Photocopying services are also offered on this floor.

## Third Floor

This floor houses the offices of LIS staff members, as well as the Art Gallery, which is used for art exhibitions, seminars and other events.

## Libraries at the Welkom Campus Regional Learning Centre

Core collections, particularly of books, are available, and supplementary material may be requested by e-mail or other methods. Information officers are available to supply information in the appropriate format.

### LIS webpage

Extensive information can be found on the LIS webpage, including the catalogues and databases to which LIS subscribes. In this way, access can be provided to students both on and off campus.

Web address: <http://www.cut.ac.za/library/>

## Operational Sport

### Manager: Operational Sport

Mr VD Mgbhozi

Tel.: 051 507 3543 / 3549 | Fax: 051 507 3548

Responsible for operational sports office

### Deputy Managers:

Mr H Muller

Tel.: 051 507 3545 / 3549 | Fax: 051 507 3548

Responsible for rugby (men and women), golf and netball

Mr V Mgbhozi

Tel.: 051 507 3546 | Fax: 051 507 3548

Responsible for soccer (men and women), athletics (men and women) and basketball (men and women)

Mr D George

Tel.: 051 507 3547 / 3549 | Fax: 051 507 3548

Responsible for tennis (men and women), hockey (men and women) and cricket (men and women)

**Co-ordinator:**

Mrs PG Molefe

Responsible for enquiries and Operational Sports Administration

Tel.: 051 507 3549 | Fax: 051 507 3548

## Participation

Students wishing to participate in any of the above-mentioned sports should report to the relevant Deputy Manager as soon as possible after their arrival so that they may be included in the activities without delay.

## Other types of sport

Any student wishing to participate in any type of sport not mentioned above can discuss the matter with a Deputy Manager, who will then make the necessary arrangements for that student to join a suitable club in the city.

## Participation in intervarsity and USSA sports tournaments

According to the constitution of University Sports South Africa (USSA), all bona fide students may participate in intervarsity sports tournaments, as well as regional and South African student tournaments or championship gatherings.

## Financial assistance

A student may apply to Operational Sport for financial assistance to cover certain expenses in respect of his/her participation – as a member of a provincial team – in a South African national or student championship gathering.

## Medical expenses

All participants in the various sports varieties are personally responsible for their own medical expenses arising from any sports injuries. Neither CUT nor the sports club concerned shall be responsible or held liable for any such expenses.

## Sport bursaries

Sport bursaries are awarded to promising sportsmen and sportswomen according to merit. Such bursaries are only awarded to individuals who participate in league sport in the name of CUT (refer to the list of sports along with the names of the sport managers).

Only achievements at provincial level and higher are taken into account. Application forms are available from Operational Sport, and the closing date is 31 October each year. Development bursaries are also available, and a maximum of three candidates may be nominated by the respective sports trainers / club managers.

**Please note:** Candidates must apply on an annual basis.

## Practice times

Specific practice times are determined for each sport, and details are available from Operational Sport.

# Fees, Bursaries and Loans

## Rules Pertaining to Fees

The CUT Council determines the various fees payable annually. Please note that the amounts below are valid for 2017 only. An increase in tuition fees will be applicable as from 2017.

## Fees Payable Upon Application and Enrolment

### Non-residence students

Application fee (non-refundable) applicable to students who follow a first or new academic programme. Application to be received before or on 31 August 2017.	R 230.00
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### Residence students

Application fee (non-refundable) applicable to students who follow a first or new academic programme. Application to be received before or on 31 August 2017.	R 230.00
Residence application deposit. Only refundable if the applicant is not accepted as a student or does not secure accommodation in a residence.	R 580.00

The application form for admission must be accompanied by the customer copy of the application fee deposit slip.

Only students who have been accepted academically by CUT, and who have received written confirmation of such academic acceptance from CUT, may apply for accommodation in a residence.

## Bursaries

In cases where a bursary covering the full tuition and/or accommodation fees has already been granted to a prospective student, the letter in which notification to that effect is provided must be included with the registration document.

**Notwithstanding any other terms, no student shall be exempted from accountability for the payment of any amounts owing to CUT.**

## Payments by employers

In cases where an employer has already indicated that he/she will accept responsibility for the full payment of tuition and/or accommodation fees, the student must include the letter in which notification to that effect is provided, with the registration documents. This letter must give an indication of the date(s) on which such payment(s) will be made.

## Conditions of Payment

The following conditions of payment apply:

- **Year students:** Monthly instalments of equal payments over nine months. Due date for full balance payable is the end of October annually.
- **Semester students for semester 1:** Monthly instalments of equal payments over four months. Due date for full balance payable is the end of May annually.

- **Semester students for semester 2:** Monthly instalment of equal payments over four months. Due date for full balance payable is the end of October annually.

## Discount on payment in cash or by bank-guaranteed cheque:

A discount of ten percent (10%) is granted in the event of all tuition fees being paid in full, in cash or by bank-guaranteed cheque, upon registration. Accounts may also be settled by credit card, but without a cash discount being applicable.

## Refunding

Application fee: No refund applies with respect to the application fee.

Accommodation deposit: A deposit made in respect of accommodation fees shall be refunded in the following instances:

- If no accommodation is available
- If the applicant is not selected

A student may only register for an assessment (examination) if all the fees for that particular year of study have been paid in full. In cases where it is subsequently discovered that a student is in arrears in respect of payments, the assessment results shall be withheld.

In cases where a student has not paid the full account in respect of a previous year, such student shall not be permitted to reregister before the account in question has been settled in full.

## Tuition fees

The following percentage of the fees shall be refundable if a student officially discontinues his/her studies on or before the dates mentioned below by means of a written notification on the prescribed LS form:

**First-semester students:** On or before 31 March – 40%  
After 31 March – None

**Second-semester students:** On or before 30 September – 40%  
After 30 September – None

**Year courses (full-time or part-time):** On or before 31 March – 50%  
Up until 31 June – 20%  
After 30 June – None

## Discount on Tuition Fees

In cases where two or more students from the same family household are simultaneously registered at CUT, the following discounts apply:

Second student – 15%

Third and fourth students – 25%

## Residence Accommodation Fees

No cancellation credits shall be payable, irrespective of the point in time at which the student vacates the residence. (One night spent in the residence is regarded as equivalent to the student having resided in the residence for the entire month.)

### Enquiries

Tel.: 051 507 4000

## Bursaries and Loans

### CUT academic merit bursaries for first-year students

Such bursaries are for candidates who are pursuing further studies for the first time after Grade 12 and who are enrolled as full-time students for a diploma or degree course at CUT. The amount allocated is calculated on the basis of the six highest symbols achieved by the candidate in the final Grade 12 examination. The criteria and amounts of these awards are reviewed on an annual basis. For more information with regard to bursaries for 2017, contact Ms A Mohala on 051 507 3334.

### Academic recruitment bursaries (for first-time entrants)

These bursaries are additional to the normal academic bursaries. First-year students who qualify will automatically be considered for such a bursary.

The following categories are available:

#### Category A

Each A symbol on HG – R1 000.00

Each A symbol on SG – R600.00

#### Category B

A bursary of R1 000.00 will be awarded to a student who achieved an A symbol (HG or SG) in the final Grade 12 examination and who is enrolled for a course in Engineering or Health and Environmental Sciences.

#### Category C

Top-ten bursaries (awarded to the ten best first-year entrants). To be considered for such a bursary, a minimum of 42 points on the CUT scoring scale, calculated on the basis of the candidate's six best subjects, is required.

### CUT Leadership Bursaries for First-year Students

At least 27 points on the CUT scoring scale in the final Grade 12 examination is an additional requirement.

The following applicants may qualify for such bursaries:

- Head boy / girl of a high school
- Chairperson of the representative council of learners of a high school
- Deputy head boy / girl of a high school
- Vice-chairperson of the representative council of learners of a high school
- Head boy / girl of a high-school hostel

- Winner of a national subject Olympiad
- Winner of a national expo
- Member of the “*Presidentverkenners*” or Springbok Scouts

### Other Bursaries

For more information on sport recruitment bursaries (first-year students only) and sport bursaries (all students), please contact Operational Sport.

For more information on the Deans’ Awards Incentive Vouchers available to first-year students, please contact the Dean of the relevant academic faculty.

### National Student Financial Aid Scheme (NSFAS) Loans (Including CUT-Administered Loans)

NSFAS (formerly known as TEFSA) offers loans of between R2 000 and R32 500 per annum to financially needy and academically deserving students who are unable to obtain a loan from a bank. These loans are REPAYABLE.

These loans are primarily intended to cover the costs of tuition fees and books.

**All allocations are subject to the availability of funds.**

### Funza Lushaka

This is a merit bursary awarded by the Department of Higher Education and Training (DHET) to deserving Teacher Education students registered for the following BEd (FET) Specialisation programmes:

- BEd (FET) Languages, majoring in African Languages, namely Setswana, Sesotho and Xhosa, with English as a compulsory major;
- BEd (FET) Natural Sciences;
- BEd (FET) Computer Science, majoring in Computer Studies (IT) and Computer Applications Technology;
- BEd (FET) Technology, majoring in Technology (Civil, Electrical and Mechanical Technology)

Students are expected to apply online at the DHET website.

### Enquiries

#### Bloemfontein Campus

#### Offices on Bloemfontein Campus

Fees and Financial Aid (NSFAS and Bursaries Office) is situated in the Lapeng Building, ground floor (behind CUT FM). Office Numbers: D17, D18, D19, D20 and D21

#### Loans

Mrs K Wilbraham | **Tel:** 051 507 3982 | **E-mail:** kwilbrah@cut.ac.za

Mr M Klassen | **Tel:** 051 507 3374 | **E-mail:** mklassen@cut.ac.za

#### Bursaries

Mrs L Scwebu | **Tel:** 051 507 3375 | **E-mail:** lscwebu@cut.ac.za

**Student Accounts (balances, quotations, results)**

Ms K Wilbraham | Tel: +27(0)51 507 3334 | E-mail: amoleme@cut.ac.za

Ms B Beckman | E-mail: bbeckmann@cut.ac.za

**Switchboard tel:** +27(0)51 507 3911

**Welkom Campus****Student Accounts (balances, quotations, results)**

Ms Nketa Leteane | Tel: +27(0)57 910 3661 | E-mail: nleteane@cut.ac.za

**Bursaries and Loans**

Mrs E Taka | Tel: +27(0)57 910 3663 | E-mail: etaka@cut.ac.za

Ms N Leteane | Tel: +27(0)57 910 3661 | E-mail: nleteane@cut.ac.za

**Switchboard tel:** +27(0)57 910 3500



## GENERAL ENQUIRIES

Bloemfontein (051) 507 3911 | Welkom (057) 910 3500

## POSTAL ADDRESS

Central University of Technology, Free State  
Private Bag X20539  
Bloemfontein  
9300  
[www.cut.ac.za](http://www.cut.ac.za)

