



Advanced Diploma in Chemistry (ADCHE1)

Purpose of the qualification

The Advanced Diploma in Chemistry (**ADCHE1**) represents a level of qualification that recognizes the ability to gain and apply a range of new knowledge, skills and understanding designed not only to meet the needs of various chemical industries, but also to provide the most appropriate preparation for further study. The curriculum therefore builds upon and advances the fundamental areas of study in chemistry: organic, physical, inorganic and analytical chemistry, along with a rich set of research-focused and instrumentation intensive laboratory experiences aligned with those areas.

Exit Level Outcomes

Upon completion of this qualification the student should be able to:

- ✓ Apply knowledge in particular problem-solving competencies relating to both qualitative and quantitative analysis.
- ✓ Exhibit the capacity to maximize the use of analytical instrumentation.
- ✓ Utilize sufficient mathematical and IT skills so that they are competent in the operation of statistical packages in a laboratory research environment.
- ✓ Apply the theoretical principles of the appropriate fields of Chemistry, viz., Organic, Inorganic, Physical and Analytical Chemistry in accordance with industry standards.

Graduate attributes

- ✓ Critical and creative thinkers who work independently and collaboratively within the chemical industry
- ✓ Knowledgeable practitioners who can conduct research and generate new knowledge.
- ✓ Effective communicators within the scientific field.
- ✓ Culturally, environmentally and socially aware within a local and global context with regard to the chemistry industry.
- ✓ Active and reflective learners who are able to process theoretical and practical knowledge.

Programme Structure

Code	Subjects	*Assessments	Year of Study
ANAC401	Analytical Chemistry IV	EX	Semester 1
CHEP401	Chemistry Project IV	CA	Semester 2
INOC401	Inorganic Chemistry IV	EX	Semester 1
ORGC401	Organic Chemistry IV	EX	Semester 1
PHYC401	Physical Chemistry IV	EX	Semester 2

KEY:* Assessment: EX = Examinable, CA = Continuous Assessment

ENTRY REQUIREMENTS

National Diploma: Analytical Chemistry,
Or
Diploma in Analytical Chemistry,
Or
A recognized equivalent

In addition to the above, applicants will be ranked ordered according to their performance in ALL S3 and S4 level modules.

You are required to complete the applications below:

- [Application Form](#)
- [Form 22 \(Applicant Biographical Information\)](#)

Complete and email along with supporting documents to phumlanem@dut.ac.za

on or before 13th January 2020

All telephonic queries can be addressed to Prof PS Mdluli on

Tel: 031 373 2302/2300

FACULTY OF APPLIED SCIENCES

Address: S4 Level 3 of the S Block, Steve Biko Campus

Tel: (031) 373 3036/3037/2717/2506



APPLICATION FORM FOR FURTHER HIGHER EDUCATION STUDIES

Student Number				Year of Registration				
Title			Surname					
Initials			First Names					
Date of Birth	Day	Month	Year	Marital Status				
Identity Number								
Passport Number (For International Students)								
Postal Address						Postal Code		
Telephone (Home)				Cellphone				
Telephone (Work)				E-Mail				
Fax Number								
What Programme Are You Applying For (Eg Advanced Dip: Dental Technology, Master's: Dental Technology)								
CURRENT / PREVIOUS TERTIARY STUDIES								
From	To	Institution	Qualification Name	Student Number	Qualification Complete		Awaiting Results	
					YES	NO	YES	NO
					YES	NO	YES	NO
Have you ever been excluded from a tertiary institution or residence?							YES	NO
If yes, please provide the year of exclusion.								
Institution and Details of Exclusion								

Routing: Student → Head of Department → Faculty Office

Are you enrolled or do you intend enrolling at another institution while studying at DUT?		YES	NO
If Yes : Institution and Qualification			

Please attach one certified copy of your:

- ▶ Diploma/Degree and any further qualifications you may have.
- ▶ ID Document/ Passport
- ▶ Students that are transferring from other Institutions (except DUT) must provide an original copy of their academic record and a certificate of conduct.
- ▶ Matric/School Leaving Certificate (If available)
- ▶ International applicants with foreign qualifications are required to have their qualifications assessed to confirm that they are equivalent to a South African qualification. This evaluation is carried out by SAQA (South African Qualifications Authority). For more information kindly, refer to the attached DUT International Applicants Information brochure.
- ▶ This form must be completed with Form 22 Applicant Biographical Information.
- ▶ Please produce the original documentation, if accepted, at registration to the Faculty Office.

DECLARATION BY APPLICANT

I, _____(name and surname) the undersigned applicant, declare that all the information supplied is true and that none of the information requested has been withheld. I understand that an incomplete application will not be processed. I understand that the department apply selection procedures and that offers of places may be withdrawn if the conditions are not met or if the University discovers that I have provided false information in my application for admission.

Signature of Applicant:.....

Date :.....

FOR ACADEMIC DEPARTMENT USE ONLY

ACCEPTED INTO PROGRAMME

YES

NO

If No - Reason for non-acceptance:

I confirm that the applicant meets the admission requirements to register for this programme.

Signature of HOD:

Date:.....

Routing: Student → Head of Department → Faculty Office

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APPLICANT BIOGRAPHICAL INFORMATION

This form is intended to capture all your vital information necessary for our administrative process. Please fill in all information correctly and legibly.						
PERSONAL INFORMATION						
STUDENT NUMBER					REGISTRATION YEAR	
1. SURNAME (IN FULL)					2. INITIAL/S	
3. FIRST NAMES (IN FULL)					4. TITLE (MR/MRS/MS)	
5. MAIDEN NAME (IF MARRIED)					6. DATE OF BIRTH (DD/MM/YYYY)	
7. IDENTITY/PASSPORT NO.					8. GENDER	
9. MARITAL STATUS (Please tick the correct box)	SINGLE	MARRIED	DIVORCED	WIDOW	14. RACE	
13. OCCUPATION (Please tick the correct box)	EMPLOYED BY EXTERNAL EMPLOYER	EMPLOYED BY DUT	UN-EMPLOYED		12. RELIGION	
42. DO YOU HAVE ANY DISABILITIES? if so, please describe your disability	YES	NO			11. HOME LANGUAGE	
21. WHAT WAS YOUR ACTIVITY LAST YEAR? Were you employed or a student or matric, etc.				22. NAME OF LAST TERTIARY INSTITUTION REGISTERED AT (If applicable)		
CITIZENSHIP						
15. ARE YOU A SOUTH AFRICAN CITIZEN? Please tick the correct box	YES	NO	10. IF NO, WHAT APPLICANT TYPE YOU? Please tick the correct box.	INTER-NATIONAL CITIZEN	SADC CITIZEN	
ONLY INTERNATIONAL STUDENTS TO ANSWER QUESTIONS 17 TO 20						
17. WHAT IS YOUR COUNTRY OF ORIGIN? i.e. The country where you were born.				18. ARE YOU CURRENTLY A SA PERMANENT RESIDENT	YES	NO
19. STUDY PERMIT NO.				20. STUDY PERMIT EXPIRY DATE		
PREVIOUS QUALIFICATIONS						
24. HIGHEST GRADE PASSED IN SECONDARY SCHOOL			25. YEAR & MNTH MATRIC EXAM WAS WRITTEN			26. MATRIC EXAM NO
					43. MATRIC SCHOOL NAME	
39. NAME OF PREVIOUS QUALIFICATION (Other than DUT)				40. YEAR OF GRADUATION		
41. NAME OF PREVIOUS INSTITUTION				23. EXEMPTION OF SUBJECTS REQUIRED	YES	NO

IMPORTANT ADDRESSES & CONTACT DETAILS (ALL DETAILS MUST BE COMPLETED)				
28. POSTAL ADDRESS				
		POSTAL CODE		
30. ADDRESS USED DURING STUDY TERM AT DUT				
		POSTAL CODE		
29. FULL NAME OF PERSON/ COMPANY PAYING THE TUITION FEES				
ADDRESS OF THE ABOVE PERSON				
		POSTAL CODE		
31. NAME OF GUARDIAN OR NEAREST FAMILY MEMBER FOR CONTACT				
ADDRESS OF THE ABOVE PERSON				
		POSTAL CODE		
32. CELL NUMBER	34. HOME TELEPHONE NUMBER	35. GUARDIAN/ FAMILY MEMBER CONTACT	36. DURING TERM TELEPHONE NUMBER	37. WORK TELEPHONE NUMBER
38. EMAIL ADDRESS			39. FAX NUMBER	
27. CAO NUMBER				

DECLARATION BY APPLICANT

I, the undersigned applicant, hereby declare that all the required information above as completed by myself is true and correct. I undertake to notify the DUT in writing immediately if any of the above information changes. I understand that should I not inform the DUT of any changes to the above information or incorrect information, that I take full responsibility for any miscommunication or non-communication by the University.

SIGNATURE OF APPLICANT

DATE