



CAREER INFORMATION 2021

DIPLOMA IN ANALYTICAL CHEMISTRY



01 JAN - 31 DEC 2021



Diploma in Analytical Chemistry NQF 6 SAQA ID: 98010

Location: Steve Biko Campus (S10, Level 3)

Description of the Programme

The Diploma in Analytical Chemistry represents a level of qualification that recognizes the ability to gain and apply a range of specialized knowledge, skills and understanding designed to meet the needs of various chemical industries. Graduates of the diploma would be able to display competence in the application of knowledge in a broad range of varied work activities associated with a career in the Chemical and Allied Industries involving detergents, petroleum, plastics, food, pharmaceuticals, mining, water treatment, metallurgy and, in addition, educational institutions may employ graduates from this course.

Graduates are required for specific practical applications such as quality control and testing or theoretical fields such as research and development. Quality control and assurance is an especially important field where industries need to verify their standards of operation and quality of manufactured materials.

This course is designed to meet the human resource needs of the chemical and allied industries and tertiary educational institutions, by providing nationally and internationally recognized tertiary education and training to students. Students who are successful in the programme may progress to the Advanced Diploma in Analytical Chemistry followed by the Postgraduate Diploma in Analytical Chemistry/Honours in order to gain access to postgraduate study towards a Masters or Doctoral qualification.

Apart from the formal course and practical work at DUT's Chemistry laboratories, the course also includes a nine month Work Integrated Learning (WIL) component in an industrial setting where skills and knowledge acquired at the university are integrated and applied under real-life working conditions.

Career opportunities

There is therefore a growing demand for graduates in this field. Industries are supportive of the furthering education of graduates and hence opportunities exist for graduates to pursue further educational qualifications. Graduates may also apply for associate membership of South African Chemical Institute (SACI). SACI is associated with the South African Council for Natural Scientific Professions (SACNASP). The following link refers: <http://www.sacnasp.org.za/about-us/voluntary-associations.html>

Explanation of Points scale:

symbol	Senior Certificate	
	Higher Grade	Standard Grade
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2
F	3	1

%	NSC Level	Points
90-100	7	8
80-89%	7	7
70-79%	6	6
60-69%	5	5
50-59%	4	4
40-49%	3	3
30-39%	2	2
20-29%	1	1

Entry Requirements (Diploma in Analytical Chemistry)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE VOCATIONAL (NCV)	
NSC DIPLOMA ENTRY		SENIOR CERTIFICATE (SC)			NATIONAL CERTIFICATE VOCATIONAL (NCV) LEVEL 4	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects (with statutory requirements for a diploma)	Mark
English OR English (1st additional)	4	English	D	B	English	50%
Mathematics	4	Mathematics	D	B	Mathematics	60%
Physical Science	3	Physical Science	E	C	Physical Science	50%

Please Note:
If there are more applications than there are vacancies, then applicants will be ranked and selected based on their academic achievement in Physical Science, Mathematics.

OR

Admission Requirement based upon Work Experience, Age and Maturity

For admission to entry level diploma and certificate studies:

A person may, subject to such requirements as the Senate may determine, be admitted to the Institution even if such a person is not in a possession of a National Senior Certificate, Senior Certificate or an equivalent certificate, provided that:

- The person shall have reached the age of 23 in the first year of registration and shall have at least:
 - three years' appropriate work experience; and/or
 - capacity for the proposed instructional programme, which shall be assessed at the discretion of the respective Head of Department by a Senate approved admission assessment comprising of a DUT Standardised Assessment Test for Access and Placement (SATAP), Academic Literacies (AI) & English for Academic Purposes (EAP) and/or an appropriate subject or programme specific written assessment designed and marked by the relevant Department; and
- The relevant Faculty Board shall be satisfied that the person's standard of communication skills, ability to study successfully and/or work experience are such that the person, in the opinion of the relevant Faculty Board, should be able to complete the proposed instructional programme successfully. If required, the communication skills and study skills should be tested; and
- The person's application for admission in terms of work experience, age and maturity is approved prior to registration.

Applicants intending to gain admission through work experience, age and maturity must submit their applications at least four months before commencement of the academic year inclusive of the date of scheduling writing a requisite eligibility assessment.

Tuition Fees

To assist you with your planning, the **2020** fees have been indicated. An increase for next year to accommodate the inflation rate can be expected.

Please Note: DUT cannot be held liable for the fees in this brochure as the **2021** fees are not yet final.

NB: For semester programmes there would be a single registration for semester 1 and semester 2 at the beginning of each academic year.

First Year Curriculum				
Name of the Module	Subject Code	HEQSF Level	SAQA Credits	2020 Fees
Semester 1				
General and Inorganic Chemistry	GINCI01	5	16	R6 600
Mathematics I	MTHCI01	5	16	R4 200
Physics I	PHICI01	5	16	R4 200
Cornerstone 101	CSTNI01	5	12	R2 530
Computer Skills I	CPUSI01	5	8	R3 000
Total				R20 530
Semester 2				
Organic and Physical Chemistry	OPCHI01	5	16	R6 600
Analytical Chemistry I	ANCHI01	6	20	R7 800
Communication Skills	CCNSI01	5	8	R3 000
Choice of 2 of the following electives (IGE)				
Introduction to Technopreneurship	ITCHI01	5	8	R1 800
Cultural Diversity	CLDVI01	5	8	R1 950
Values in the Workplace	VWKPI01	5	8	R2 080
Sustainable Earth Studies	SERSI01	5	8	R1 950
Total				R21 150/R21 280/R21 430/R21 300
TOTAL CREDITS SEMESTER 1 & 2			128	

Second Year Curriculum				
Name of the Module	Subject Code	HEQSF Level	SAQA Credits	2020 Fees
Semester 1				
Analytical Chemistry II	ANCH201	6	24	R2 450
Applied Inorganic Chemistry	APIC101	6	12	R4 800
Applied Organic Chemistry	APOC101	6	12	R4 800
Applied Physical Chemistry	APPC101	6	12	R4 800
Choice of 1 of the following electives (IGE)				
Leadership	LDSH101	5	8	R1 950
Constitutional Law & Human Rights	CLHR101	5	8	R1 950
Total				R18 800
Semester 2				
Analytical Chemistry III: Chromatography	ACCH301	6	12	R4 800
Analytical Chemistry III: Atomic Spectroscopy	ACAS301	6	12	R4 800
Analytical Chemistry III: Molecular Spectroscopy	ACMS301	6	12	R4 800
Analytical Chemistry III: Electroanalytical Chemistry	ACEC301	6	12	R4 800
Chemical Quality Assurance	CQLA101	6	16	R4 200
Total				R23 400
TOTAL CREDITS SEMESTER 1&2			132	

Third Year Curriculum				
Name of the Module	Subject Code	HEQSF Level	SAQA Credits	2020 Fees
Semester 1				
Experiential Learning I	EXLN101	6	12	R2 400
Chemistry Project I	CHPJ101	6	36	R3 600
Community Engagement and Development	ASCE101	6	12	R3 110
Total				R 9 110
Semester 2				
Experiential Learning II	EXLN201	6	48	R3 000
Chemistry Project II	CHPJ201	6	12	R2 400
Total				R5 400
TOTAL CREDITS SEMESTER 1&2			120	

Application

Applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 November of the previous year.

For Application Forms

Contact the Central Applications Office (C.A.O) Address letters to:

Central Applications Office
Private Bag X06 Dalbridge
4014

Tel: (031) 2684444

Fax: (031) 2684422

OR

Apply online: <http://www.cao.ac.za>

CAO Code: DUDCH3

Closing Date for applications: 30 November 2020

For Further Information

Contact the Department of Chemistry

Steve Biko Campus (S10, Level 3)

Durban University of Technology P O Box 1334

DURBAN 4000

Tel: (031) 373 2300

Fax to email: 08667406058 Email: karenf@dut.ac.za

Financial Aid

For Financial Aid application for a DUT programme please apply online at www.nsfas.org.za or call the NSFAS call centre on 0860 067 327.

For an explanation on how to fill out the application form, please go to www.nsfas.org.za or contact the call centre on the number above.

Please note that completing a form does not guarantee Financial Aid. For further assistance, please consult the Department of Financial Aid and Scholarships on (031)373 2931/2557/2054.

This leaflet is for information purposes only and is not binding on the Durban University of Technology.