



BACHELOR OF APPLIED SCIENCE IN INDUSTRIAL CHEMISTRY



CHEMISTRY

01 JAN - 31 DEC 2026

Bachelor of Applied Science in Industrial Chemistry

NQF Level: 7

SAQA ID: I19966

Qualification Code: BASIC1

Location: Steve Biko Campus (S10, Level 3)

Description of the Programme

The purpose of this qualification is to equip graduates with the necessary theoretical and scientific knowledge of relevant disciplines and fields of study to be used in an academic or specialized context. The Bachelor of Applied Science in Industrial Chemistry aims to provide a unique blend of practical applications and theory which immerses students into a wide range of the fastest growing technological fields in South Africa. The theoretical underpinnings of this qualification have a core discipline of the chemical sciences. Thorough grounding in the knowledge, scientific theory, principles and skills of this qualification will be inculcated into the student. Students achieving this qualification will be able to conduct basic research, formulate appropriate responses, develop and improve systems and policy, and combine a wide range of industrial chemistry related scientific knowledge, skills and experience within specialized areas of the chemical sector.

Career opportunities

Employment may be found in a laboratory or production process as well as chemical and laboratory sales. Industries such as detergent, petroleum, plastics, food, pharmaceuticals, mining, water treatment, metallurgy and educational institutions employ graduates from this course. Graduates may work in a practical application such as quality control and testing, or a theoretical field such as research and development, with chemists and other technologists or technicians. Quality control and assurance is a field with a growing demand for these graduates. Opportunities exist for graduates to pursue further educational qualifications such as an Honors in Chemistry or a Post Graduate Diploma in Chemistry. Graduates may 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>.

MINIMUM ADMISSION REQUIREMENTS GENERAL ADMISSION REQUIREMENTS

A person will only be considered for registration for an instructional programme approved by the Institution's Senate if the person complies with:

- (a) The minimum admission requirements stated in DUT general handbook (refer to DUT website for general handbook).
- (b) Institutional faculty, departmental and/or instructional programme specific rules; and

MINIMUM ADMISSION REQUIREMENTS IN TERMS OF THE HIGHER EDUCATION QUALIFICATIONS SUB-FRAMEWORK (HEQSF)

Rules G7 and G23B will apply.

Entry Requirements (Bachelor of Applied Science in Industrial Chemistry)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) (NCV)	
NSC DEGREE ENTRY		SENIOR CERTIFICATE (SC)			National Certificate Vocational (NCV)	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects	Mark
English	4	English	D	B	English	60%
Mathematics	4	Mathematics	D	B	Mathematics	60%
Physical Science	4	Physical Science	D	B	Physical Science	70%
In addition: TWO recognized NSC 20 credit subject as per G7 rule (As stated above)	4					

OR

Admission Requirements based on Work Experience, Age and Maturity; and Recognition of Prior Learning

The DUT Rules G7 (3), and G7 (8) respectively, will apply. (Approved by Senate Rules Comm wef 2014/10) Admission of International Students

The DUT's Admissions Policy for International Students and DUT Rules G4 and G7 (5) will apply.

International students must meet the equivalent programme minimum entrance requirements as stated above.

(Approved by Senate Rules Comm wef 2014/10)

Admission of Students from other Institutions

In addition to the relevant DUT Rules a transferring student will only be accepted if there are places available and the student has met the applicable entrance requirements of the university. (Approved by Senate Rules Comm wef 2014/10)

Tuition Fees

To assist you with your planning, the **2024** provisional 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 **2025** fees are not yet final.

First Year Curriculum				
Name of the Module	Subject Code	HEQSF Level	SAQA Credits	2025 Fees
Semester One				
Industrial Chemistry 1A	ICHM101	5	16	R8290.00
Mathematics 1A	MTTS101	5	12	R5280.00
Physics I	PYCI101	5	12	R5280.00
Computer Skills	CMSK101	5	8	R3760.00
Cornerstone 101	CSTN101	5	12	R3910.00
FGE – Applied Sciences for Sustainable Development	ASES101	6	12	R3900.00
Total				R30420.00
Semester Two				
Applied Statistics	APLS102	5	12	R5280.00
IGE – KwaZulu Natal's Maritime Heritage	KZNM101	5	8	R2430.00
IGE – Introduction to Technopreneurship	ITCH101	5	8	R2270.00
Industrial Chemistry 1B	IDCH102	5	12	R7256.00
Mathematics 1B	MTTS102	5	12	R5280.00
Total				R22516.00
TOTAL CREDITS SEMESTER 1&2			124	
Second Year Curriculum				
Semester One				
Chemical Industrial Processes 2A	CHIP201	6	16	R4620.00
Chemical Process Fundamental	CHPF 201	6	16	R4620.00
Inorganic Chemistry Methods 2	IOCM201	6	12	R7256.00
Organic Chemistry Methods 2	OCMD201	6	12	R7256.00
Physical Chemistry Methods 2	PYCM201	6	12	R7256.00
Total				R31008.00
Semester Two				
Chemical Industrial Processes 2B	CHIP 202	6	16	R4620.00
FGE – Role of Applied Science in Society	RASS 101	6	12	R3610.00
IGE – Work Preparedness	WKPR 101	6	8	R2430.00
Instrumental Analysis	INSA202	6	16	R8568.00
Wet Analytical Chemistry Methods	WACH202	6	12	R8568.00
Total				R27796.00
TOTAL CREDITS SEMESTER 1&2			132	
Third Year Curriculum				
Semester One				
Applied Analytical Chemistry	PACH 301	7	32	R8568.00
Inorganic Chemistry Methods 3	IOCM301	7	20	R7256.00
Organic Chemistry Methods 3	OCHD301	7	20	R7256.00

Total				R23080.00
Semester Two				
Physical Chemistry Methods 3	PYCM302	7	20	R7256.00
Research Project	CHRP302	7	32	R8568.00
Total				R15824.00
TOTAL CREDITS SEMESTER 1 & 2			124	

Application

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

CAO Application visit: <http://www.cao.ac.za>

CAO Contact Details

Private Bag X06
Dalbridge
4014
Tel: (031) 2684444
Fax: (031) 2684422

CAO Code: DU-D-BSY

Closing Date for applications: 30 September 2024

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: 086 674 0605/8
Email: vimlap@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 is for information purposes only and is not binding on the Durban University of Technology