Career Information
Diploma in Analytical Chemistry

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

Entry Requirements

For admission to entry level diploma and certificate studies:

Values in the Workplace  R1 970
Introduction to Technopreneurship R1 710

Explanation of Points scale:

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<th>%</th>
<th>NSC Level</th>
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<td>90-100</td>
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<td>70-29</td>
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New student intake is done in January only.

Tuition Fees
To assist you with your planning, the 2019 fees have been indicated.

Please note: DUT cannot be held liable for the fees in this brochure as the 2020 fees are not yet final.

First Year Curriculum: 2019 Fees

Semester One

General and Inorganic Chemistry R6 260
Mathematics I R3 990
Physics I R3 990
Cornerstone 101 R2 950
Computer Skills R2 850
Total R20 040

Semester Two

Organic and Physical Chemistry R6 260
Analytical Chemistry I R7 400
Communication Skills R2 850
Choice of 2 of the following electives (IGE)

Introduction to Technopreneurship R1 710
Cultural Diversity R1 850
Values in the Workplace R1 970
Sustainable Earth Studies R1 850
Second Year Curriculum
Semester Three
Analytical Chemistry II R2 330
Applied Inorganic Chemistry R4 550
Applied Organic Chemistry R4 550
Applied Physical Chemistry R4 550
Choice of 1 of the following electives (IGE)
Leadership R1 850
Constitutional Law & Human Rights R1 850

Semester Four
Analytical Chemistry III: Chromatography R4 550
Analytical Chemistry III: Atomic Spectroscopy R4 550
Analytical Chemistry III: Molecular Spectroscopy R4 550
Analytical Chemistry III: Electroanalytical Chemistry R4 550
Chemical Quality Assurance R3 990
Total R22 190

Third Year Curriculum
Semester Five
Experiential Learning I R2 280
Chemistry Project I R3 420
Community Engagement and Development R1 710
Total R7 410

Semester Six
Experiential Learning II R2 850
Chemistry Project II R2 280
Total R5 130

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APPLICATION FORMS
Contact the Central Applications Office (C.A.O) Address letters to:
CAO Code: DUDCH3
Central Applications Office Private Bag X06
Dalbridge
4014
Tel: (031) 2684444
Fax: (031) 2684422
Apply online: http://www.cao.ac.za

Closing Date for applications: 30 September 2019

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.