

# Start your future career in Chemical Engineering

Diploma in Chemical Engineering



## CONTACT

+27 (0)21 959 6083  
nqwazis@cput.ac.za



Cape Peninsula  
University of Technology  
creating futures

#weare  
**CPUT**  
creating futures

## YOUR FUTURE SELF

## Future studies

BTech: Chemical Engineering  
MEng: Chemical Engineering  
DEng: Chemical Engineering

## Future industries

Petroleum Refineries  
Mining  
Processing Plants  
Chemical Manufacturing  
Research organisations

## Future career

Chemical Engineering Technologist  
Process Engineer  
Chemical Process Consultant  
Researcher

Ever wondered how petroleum or minerals are produced? As a Chemical Engineering graduate you will know the answer.

You will be trained to convert raw materials into high value products using processing and design principles. For example, producing liquid fuels from crude oil and manufacturing chemicals, explosives, fertilisers and plastics to mention just a few.

### YOU WILL LIKE THIS IF

You have strong mathematical, science and problem-solving skills.

### YOU WILL STUDY AT

Bellville Campus

### YOU WILL STUDY FOR

Three years, full-time

## WHAT YOU NEED

### Minimum Admission Requirements

#### Matric Certificate (Pre 2009)

- Mathematics HG (E); SG (D)
- Physical Science HG (E); SG (D)
- English HG (E); SG (D)

#### National Senior Certificate

- Mathematics (4)
- Physical Science (4)
- English (4)

#### FET N4

- Mathematics (60%)
- Physical Science (60%)
- English (60%)

The department utilises an Admission Point Score (APS) as selection criteria once your minimum admission requirements are satisfied. You also have to score a minimum of **30** on the APS.

### DISCLAIMER

Meeting the minimum requirements does not guarantee admission. This information is subject to change based on approval and accreditation of HEQSF aligned qualifications during 2018/ 2019.

Admission requirements may therefore differ between the existing qualification and the HEQSF aligned qualification. Please consult the CPUT website or faculty for updated information. Every effort has been made to ensure the accuracy of the information in this pamphlet; however the University reserves the right at any time, if circumstances require to make changes to any of the published details.

## YOUR SUBJECTS

### FIRST YEAR

- Engineering Mathematics 1
- Engineering Chemistry
- Engineering Physics
- Engineering Communication
- Engineering Computer Applications 1
- Chemical Engineering Technology 1
- Chemical Process Technology

### SECOND YEAR

- Complimentary B Subject: Engineer in Society
- Transfer Processes
- Chemical Engineering Thermodynamics
- Process Fluid Flow
- Chemical Engineering Technology 2
- Chemical Engineering Laboratory 1
- Process Design Principles 1
- Particle Technology
- Management & Entrepreneurial Skills
- Chemical Engineering Laboratory 2

### THIRD YEAR

- Process Control & Instrumentations 1
- Bioprocess & Environmental Engineering
- Introduction to Chemical Reaction Engineering
- Separations Processes 1 – Unit Operations
- Engineering Mathematics 2
- Investigative Projects
- Engineering Computer Applications 2
- Process Design Principles 2
- Chemical Engineering Projects



## Your on-the-job training

You will have to complete Work-Integrated Learning (WIL) forms part of a combination of WIL modalities, such as work-directed theoretical learning, problem-based learning and project-based learning. A combination will be utilised in simulated and real situations to expose you to workplace practices and how they are used to solve engineering problems.

## HOW TO APPLY



### MANUAL APPLICATIONS

Do you qualify to apply manually?

**Please note:** a non-refundable application fee will be applicable. Manual applications are only available to the following persons:

- Applicants applying for RPL (Recognition of Prior Learning)
- Non-South African citizens
- South-African citizens with international qualifications
- Applicants with permanent residence in South Africa
- Refugee asylum seeker temporary permit/ formal recognition of refugee status in the RSA

- 1 Choose a qualification
- 2 Complete an application form
- 3 Gather your documents (i.e. certified copies less than three months old)
- 4 Fill in the application form
- 5 Pay the application fee
- 6 Hand deliver or post your form and certified copies of documents to our District Six, Bellville, Mowbray, or Wellington Campuses (Admin buildings)
- 7 Follow-up and get your admission status via the online application tracking system by visiting [www.cput.ac.za/study/track](http://www.cput.ac.za/study/track)



### ONLINE APPLICATIONS

Do you qualify to apply online?

ONLINE APPLICATIONS ARE FREE

The following persons may only apply online, i.e. no manual applications will be allowed:

- South African citizens with South African qualifications
- Returning students with a break in studies (more than 1-year break)

- 1 Choose your qualification by consulting this brochure or the website
- 2 Gather your documents (i.e. certified copies less than three months old)
- 3 Download the online application guide available on our website for information on how to apply online
- 4 Complete your application online by visiting [www.cput.ac.za/study/apply](http://www.cput.ac.za/study/apply)
- 5 Follow-up and get your admission status via the online application tracking system by visiting [www.cput.ac.za/study/track](http://www.cput.ac.za/study/track)

### CLOSING DATES

**31 AUGUST**

International applicants

**30 SEPTEMBER**

South African citizens

