Start your future career in Biotechnology

Diploma in Biotechnology

Are you passionately curious about all living organisms?

Biotechnology is one of the most rapidly expanding sciences internationally. You will become competent in the theoretical, applied and general skills across a variety of scientific and technology disciplines. Biotechnologists are involved in the industrial use of living organisms (or parts of organisms) to produce food, drugs and other products. This ranges from fermentation, plant and animal hybridisation, to genomics.

You will train in modern, well-equipped laboratories on our campus and when you graduate you may register with the South African Council for Natural Scientific Professions as a Candidate Natural Scientist.

WHAT YOU NEED

Minimum Admission Requirements

National Senior Certificate (Grade 12) with:
• English, Home or First Additional Language (4)
• Mathematics (4)
• Physical Science (4)
• Life Sciences (4)

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 28 for the Extended Curriculum Programme and 28 for the mainstream programme on the APS.

YOUR FUTURE SELF

Future studies

Advanced Diploma in Biotechnology

Masters in any of the following:
• Plant Biotechnology, Bioresources
• Engineering, Environmental microbiology

Doctorate in any of the following:
• Plant Biotechnology, Bioresources
• Engineering, Environmental microbiology

Future industries

Bioprocessing/ Biomanufacturing industry

Food and beverage industry

Pharmaceutical industry

Pulp and paper industry

Wastewater treatment plants

Agriculture and forestry

Research institutions

Academic Institutions

Research councils

Government departments

Future career

Biotechnologist

Microbiologist

Quality controller

Product developer

Researcher

Creating futures in biotechnology

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
• Biotechnology: Introduction
• Mathematics
• Physics for Biology
• Microbiology
• Biochemistry
• Bio-analytical Chemistry
• Immunology

SECOND YEAR
• Biochemistry 2
• Microbiology 2A
• Operations Management
• Bioprocessing 2A
• Microbiology 2B
• Bio-analytical Chemistry 2
• Molecular Biology Techniques
• Bioprocessing 2B
• Work-Integrated Learning (WIL) Preparedness

THIRD YEAR
• Work-Integrated Learning (WIL)
• Applied Biotechnology
• Research Methodology
• Biotechnology Integrated Project

Your on-the-job training

You are required to complete 10 – 12 months of industrial training in a suitable facility, primarily in the following areas: Research and development, quality control and manufacturing.

CONTACT

+27 (0)21 460 9097
infomipes@cput.ac.za

2019

Creating futures in biotechnology

Online applications

Do you qualify to apply online?

Your minimum admission requirements

YES

NO

We regret to inform you that you do not meet the minimum admission requirements.

How to apply

Online applications

The following persons may only apply online, i.e. non-resident applicants
• South African citizens with international qualifications
• Returning students with a break in studies (more than 1 year)

Choose your qualification by consulting the brochure or the website

Follow up and get your admission status via the online application tracking system by visiting www.cput.ac.za/study/track

Closing dates

30 September

South African citizens

31 August

International applicants