Pearson Institute
of Higher Education

Faculty of Applied Science

Bachelor of Science in Biomedicine

SAQA ID 62752 *NQF level 7*

Qualification duration

Minimum: 3 years
Maximum: 5 years
Full-time

Qualification start date

Semester 1: February
Semester 2: July

Mid-year intake?

Students are accepted to start their studies of selected subjects at the start of the second semester.

Qualification description

The BSc (Biomedicine) prepares you for work in the dynamic and rapidly advancing world of biomedical science and technology.

This is an extremely demanding yet highly rewarding qualification. You will develop a broad theoretical foundation in human physiology, molecular biology, microbiology and pharmacology, with an emphasis on application based research and the use of technology. You will cover a range of applied-biology core modules such as Applied Chemistry, Immunology, Biopharmaceutical Marketing and Medical Biotechnology. You will also cover subjects such as Computer Skills, Mathematics for Science Students, Quantitative Techniques and Clinical Trials.

We offer you an environment that combines theory, research and practical application. In addition, we have excellent facilities such as computer and science labs and quality lecture rooms. We ensure that you graduate with essential work skills such as critical and analytical thinking, effective problem solving, collaborating in teams and communicating effectively.

Entry requirements

- You need a South African National Senior Certificate (NSC) with Bachelor degree entry or an equivalent foreign secondary qualification on an NSC level with Bachelor degree entry approved by Universities South Africa (USAF).

Or

- If you have an international school-leaving certificate, you need to provide a certificate of exemption issued by Universities South Africa (USAF).

Or

- You should have successfully completed the relevant Pearson Institute foundation programme. On successful completion of the foundation programme, students are required to apply to Universities South Africa (USAF) for a certificate of exemption in order to be admitted to a degree programme.

Or

- You should have successfully completed a relevant higher certificate qualification. On successful completion of the higher certificate, students are required to apply to Universities South Africa (USAF) for a certificate of exemption in order to be admitted to a degree programme.

And

- You need 32 or more Pearson Institute points.
- You need 50% or above for Grade 12 English.
- You need 50% or above for Grade 12 Mathematics.
- You need 50% or above for Grade 12 Biology/Life Sciences.
- The points attained for the best two of the subjects of Biology/Life Sciences, Mathematics, Chemistry, Physics and Physical Science must be doubled.

Qualification accreditation

- Accredited by the Higher Education Quality Committee (HEQC) of the Council on Higher Education (CHE).
- Registered with the South African Qualifications Authority (SAQA).

Possible career options

Start exploring the world through a microscope.

The careers for you, as a Bachelor of Science in Biomedicine graduate, are varied and include:

- Academia
- Project management
- Research
- Scientific Communications
- Technical positions in laboratories
- Technical sales

This qualification is offered at the following campuses

- Pearson Institute Midrand Campus

Qualification structure

Year 1

Students are introduced to the basic principals of Biomedicine.

- Applied Chemistry
- Animal and Plant Biology
- Bioentrepreneurship
- Computer Skills
- Introduction to Chemistry
- Mathematics for Science Students
- Medical Bioethics and Communication
- Physics for Science Students
- Principles of Biology
- Project Management
- Quantitative Techniques (Biology)
- Science Skills

Year 2

Students are introduced to the basic principals of Biomedicine.

- Biopharmaceutical Marketing
- Economics of Healthcare
- Exploration of Industry
- Histology
- Introduction to Microbiology
- Introduction to Molecular Biology
- Medical Microbiology and Immunology
- Nutraceuticals and Functional Foods
- Physiological Control Mechanisms
- Personal Selling and Sales Management
- Organ Systems Physiology
- Physiological Control Mechanisms

Year 3

On completion of this level, the students will have acquired a rounded knowledge in the following fields:

- Clinical Trials and Good Manufacturing Practice
- Criminalistics
- Medical Biotechnology
- Operations Management
- Pharmacological Principles, Endocrine and Neuropharmacology
- Protein Biochemistry and Analytical Chemistry
- Systems Pharmacology and Chemotherapeutics
- Work Integrated Learning (WIL)