Pearson Institute of Higher Education

Faculty of Applied Science

Bachelor of Science in Information Technology

SAQA ID 80887 *NQF level 7*

Qualification duration

Minimum: 3 years
Maximum: 6 years
Full-time

Qualification start date

Semester 1: February
(duration 3 years)
Semester 2: July
(duration 3.5 years)

Mid-year intake?

Yes. Mid-year intake starts the same date as Semester 2.

Qualification description

The multidisciplinary nature of this degree prepares you for work in many areas in the Information Technology industry.

You will develop a broad theoretical foundation in various core areas of information technology such as information systems, computer science, software development, database design and project management. You will also develop practical skills with an emphasis on managing operating systems, designing software, analysing systems, building network applications and programming. Over and above this, you will cover topics such as human-computer interaction, internet server management, e-commerce and social practices and security.

You will also develop essential skills for the world of work, such as analytical and abstract thinking, effective decision-making, self-discipline, being innovative, adapting to change, working in teams and communicating effectively.

Entry requirements

- You need a South Africa 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 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.

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

Ever wish you could design your own Apps?

The career choices for you, as a Bachelor of Science in Information Technology graduate, are varied and employment opportunities exist in both IT and in business:

- Database administration
- IT management
- Programming
- Software development
- Systems analysis and design

This programme is offered at the following campuses

- Selected Campuses

Qualification structure

Year 1

This year of study lays the foundation down for students and aims to focus on applying yourself to your studies; the basic principles behind programming and logic; fundamentals of networking, what is IT all about; and the general student life.

- Computer Skills Development
- Computer Systems
- Human Computer Interaction
- Introduction to Information Systems
- Introduction to Programming
- Mathematics for Computer Science
- Networking Technologies
- Object Oriented Programming
- Procedural Programming
- Software Development Project 1

Year 2

This year of study builds on the foundation of first year and more group discussions are encouraged. Focus is placed on:

- Data Analysis and Design
- Data Structures and Algorithms
- Database Design Concepts
- Internet Server Management
- Introduction to Business Management
- Networking Infrastructure
- Programming in Java
- Project Management
- Software Development Project 2
- Systems Analysis and Design

Year 3

During this year students are encourage to think for themselves when applying their reasoning. All modules focus mainly on higher order thinking and the following:

- Advanced Database Systems
- Information Systems Strategic Design
- Internet Programming and e-Commerce
- Java and Distributed Systems
- Object Oriented Systems Analysis and Design
- Operating Systems
- Social Practices and Security
- Software Development Project 3