



Bachelor of Science in Computer Science.

SAQA ID 74131 NQF level 7

🕒 Qualification duration

Full-Time

Minimum: 3 years

Maximum: 5 years

☰ Qualification description

Future-proof your IT skills. The BSc (Computer Science) is a broad and intensive qualification that prepares you for work in a range of IT jobs in the rapidly changing industries of computer science, software and Information Systems (IS).

You will gain in-depth theoretical knowledge as well as practical experience in the core areas of computer science such as information systems, database design, software development, programming, mathematics, algorithm design and project management. You will also develop practical skills with an emphasis on using, designing and managing operating systems, creating and maintaining databases, and software programming and development. Within these subject areas, you will also cover topics such as human-computer interaction, internet technology, e-commerce and the ethical and security considerations needed by IT professionals.

Much of the success of this degree is due to our unique blended approach to teaching, which consists of interactive lecture-based learning, smaller classes and the use of technology. We also have highly dedicated teaching staff with professional accreditations, and a curriculum that is relevant and ahead of trends. Most importantly, our focus is on real-world application, completing projects, attending workshops and on practising essential information technology skills.

📄 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).

This qualification is offered at the following campuses:

- Eduvos Midrand Campus

✔ Entry requirements

1. South African National Senior Certificate (NSC) with Bachelor degree endorsement.
2. Or a National Certificate (Vocational) level 4 issued by the Council of General and Further Education and Training with Bachelor's degree endorsement.
3. Or a letter or certificate confirming an exemption from Universities South Africa (USAf) for any other School leaving results.
4. Or completion of a Bachelor's degree.
5. Or completion of relevant Foundation Programme along with a letter or certificate of exemption from Universities South Africa (USAf).
6. Or completion of relevant Higher Certificate.
7. And 32 Eduvos points or more.
8. And a minimum of 50% in English Language on Grade 12 equivalent.
9. And a minimum of 50% in Mathematics on Grade 12 equivalent.
10. Points attained for the best two of the subjects of English, Mathematics and Computer Science/Information Technology must be doubled.
11. *A student with Mathematics (less than 50%, but greater than or equal to 40%) must enrol for, and complete Introduction to Mathematics (FPBMAO) and Mathematics for Degree Studies B (FPMIAO) before attempting Mathematics 1A (ITMTA1).

📁 Possible career options

Passionate about twenty-first century technology? The careers for you, as a Bachelor of Science in Computer Science graduate, are varied and include:

- Database Administration
- IT Project Management
- Systems Analysis and Design
- Cloud Computing
- Software Development
- Technology Support Specialist
- Network Administration
- Software Programming



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Qualification structure

Year 1

Students are introduced to the basic principles of computer science.

- Advanced Information and Computer Skills
- Business English
- Computer Skills
- Computer Network and Security
- Discrete Mathematics
- Generic Algorithm Design
- Human Computer Interaction
- Introduction to Information Systems
- Introduction to Programming using C++
- Mathematics 1A
- Mathematics 1B
- Object-Oriented Programming using C++

Year 2

Students develop an intermediate level of knowledge and skills in computer science.

- Database Management System
- Data Structures and Algorithms in C#
- Database Systems Design, Implementation, and Management
- IT Project Management
- Networking Technologies
- Network Security
- Raspberry PI Computer Architecture Essentials
- Object-Oriented Programming in C#
- Systems Analysis and Design

Year 3

Students develop a more advanced level of knowledge and skills in computer science, software development and information systems.

- Cloud Computing: A Practical Approach
- Logistics and Supply Chain Management
- Object Oriented Systems Analysis and Design
- Operating Systems
- Project
- Social Practices and Security
- Soft Skills for IT Professionals
- Software and Web Services using Java Programming
- Web Development and e-Commerce
- Industry 4.0