



IIE Bachelor of Computer and Information Sciences in Application Development

School of Information Technology

The IIE Bachelor of Computer and Information Sciences in Application Development provides candidates with a thorough theoretical grounding and knowledge base in the key principles of information technology (IT), programming, mobile application development across platforms, web development, database design, troubleshooting, testing, connectivity, customisation and project

management. Graduates will develop meaningful software development acumen grounded in a deep understanding of holistic application program-ming and development. This qualification has been designed to develop graduates' abilities to design, code, implement and manage solution-focused by producing systemic thinkers who can develop software solutions for any device or platform.

DEGREE

CONTACT

FULL-TIME

Curriculum

MODULES					
YEAR 1					
SEMESTER 1			SEMESTER 2		
Code	Module Name	Credits	Code	Module Name	Credits
MAPC5112	Mathematical Principles for Computer ScienceS	15	ITPP5112	IT Professional Practice	15
NWEG5111	Network Engineering 1A	15	NWEG5122	Network Engineering 1B	15
PROG5121	Programming 1A	15	PROG6112	Programming 1B	15
PRLD5121	Programming Logic and Design	15	PRSE6212	Principles of Security	15

YEAR 2					
SEMESTER 3			SEMESTER 4		
Code	Module Name	Credits	Code	Module Name	Credits
CLDV6211	Cloud Development	15	ADDB7311	Advanced Databases	15
DBAS6211	Databases	15	CLDV6212	Cloud Development B	15
PROG6221	Programming 2A	15	PROG6212	Programming 2B	15
SAND6221	Systems Analysis and Design	15	SOEN6222	Software Engineering	15

YEAR 3					
SEMESTER 5			SEMESTER 6		
Code	Module Name	Credits	Code	Module Name	Credits
INRS7321	Introduction to Research	15	APDS7311	Application Development Security	15
IPMA6212	IT Project Management	15	OPSC7312	Open Source Coding (Intermediate)	15
OPSC7311	Open Source Coding (Introduction)	15	PROG7312	Programming 3B	15
PROG7311	Programming 3A	15	XBCAD7319	Work Integrated Learning 3	15



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3 YEARS FULL-TIME | NQF LEVEL 7 | MINIMUM 360 Credits | SAQA ID: 97600

Articulation Options

For the School of Information Technology, the following qualification allow you to articulate into the Bachelor of Computer and Information Sciences in Application Development should you meet the requirements:

- IIE Higher Certificate in Mobile Application and Web Development

For alternative articulation options within our other schools please contact your campus for further information.

NQF 5 Higher Certificate

NQF 7 Bachelor's Degree ✓

NQF 8 Honours Degree or Postgraduate Diploma

NQF 9 Master's Degree

Career Opportunities

This qualification will open up an attractive range of career options. These opportunities include, but are not limited to

- Business Analyst
- Cloud Computing Developer
- Cloud Computing Consultant
- Cloud Integrator
- Database Developer
- Dynamic Web Developer
- Development Operations Engineer
- Mobile Developer
- Software Developer
- Software Development Project Manager
- Software Development

Timetables

This qualification is aimed at students who wish to complete full-time fact-to-face studies for the duration of their qualification. This means that students are expected to be available throughout the day for class in the academic year depending on how the timetable is structured. Students may also be required to write assessments or submit coursework or assignments outside of normal class time. Students who would like to pursue part time employment opportunities outside of the academic programme must prioritise their studies and avoid committing to work schedules until after they have received their timetables and academic calendar from the institution. Students must also note that timetables remain subject to change throughout the academic year.

Admission Requirements

There are prerequisites for this programme that must be met in order to progress through the qualification.

National Senior Certificate (NSC)

Bachelor pass with English (30%) and Mathematics (40%) or Mathematical Literacy (60%)

National Certificate (Vocational) (NC(V))

Bachelor pass with English (50%) and Mathematics (50%) or Mathematical Literacy (60%)

Senior Certificate (SC)

Endorsement with English (33.3%) and Mathematics (40%) or Mathematics Literacy (50%)

Senior Certificate (Amended) (SC(a))

Bachelor pass with Math (40%) or Math Lit (50%). A minimum of 30% in LOLT in NSC/ SC(a) OR with a min. of 33.3% on SC

International

An USAf Exemption Certificate is required and meeting the relevant Maths and English requirements.

A cognate Higher Certificate OR cognate 240 credit Diploma OR an Advanced Certificate OR 360 credit Diploma or Degree may satisfy the minimum admission requirements to degree studies.

If discipline not cognate at least 20% of credits must be academic literacy or numeracy related.

SHAPE YOUR DEGREE. YOUR FUTURE. YOUR CAREER.