



# IIE Bachelor of Computer and Information Sciences in Application Development

School of Information Technology

**DEGREE**

**CONTACT:  
FULL-TIME**

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 programming 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.

## 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 Program Manager
- Software Engineer

## Curriculum

Year 1							
Semester 1				Semester 2			
Code	Module Name	NQF	Credit	Code	Module Name	NQF	Credit
MAPC5112	Mathematical Principles for Computer Science	5	15	ITPP5112	IT Professional Practice	5	15
NWEG5111	Network Engineering 1A	5	15	NWEG5122	Network Engineering 1B	5	15
PROG5121	Programming 1A	5	15	PROG6112	Programming 1B	6	15
PRLD5121	Programming Logic and Design	5	15	PRSE6212	Principles of Security	6	15
Year 2							
Semester 3				Semester 4			
Code	Module Name	NQF	Credit	Code	Module Name	NQF	Credit
CLDV6211	Cloud Development A	6	15	ADDB7311	Advanced Databases	7	15
DBAS6211	Databases	6	15	CLDV6212	Cloud Development B	6	15
PROG6221	Programming 2A	6	15	PROG6212	Programming 2B	6	15
SAND6221	Systems Analysis and Design	6	15	SOEN6222	Software Engineering	6	15
Year 3							
Semester 5				Semester 6			
Code	Module Name	NQF	Credit	Code	Module Name	NQF	Credit
INRS7321	Introduction to Research	7	15	APDS7311	Application Development Security	7	15
IPMA6212	IT Project Management	6	15	OPSC7312	Open Source Coding (Intermediate)	7	15
OPSC7311	Open Source Coding (Introduction)	7	15	PROG7312	Programming 3B	7	15
PROG7311	Programming 3A	7	15	XBCAD7319	Work Integrated Learning 3	7	15

## 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

	English	Maths		Notes	
		Maths/HG	Math Lit/SG/ Technical Maths		
Minimum Admission Requirements	NSC: Bachelor pass with	30%	40% or	60%	A minimum of 30% in LoLT on NSC/ SC(a) OR with a min. of 33.3% on SC
	NC(V): Bachelor pass with	50%	50% or	60%	
	SC: Endorsement with	33.3%	40% or	50%	
	SC(a): Bachelor pass with		40% or	50%	
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.					

Should you have any other school leaving qualification not mentioned above, please contact a student advisor.

## Articulation Options

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

- IIE Higher Certificate in IT in Support Services
- IIE Higher Certificate in Mobile Application and Web Development

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