



## IIE Bachelor of Computer and Information Sciences in Application Development

School of Computer  
Science

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.

The distance mode of study is ideal for working adults who prefer not to attend full-time lectures.

As an IIE distance student you will receive all your support online from a dedicated team of IIE Varsity College Online tutors.

**DEGREE**

**DISTANCE**



## 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: Four Year Structure

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
PROG5121	Programming 1A	5	15	PROG6112	Programming 1B	6	15
INSY5111	Information Systems 1A	5	15	INSY6112	Information Systems 1B	6	15
Year 2							
Semester 3				Semester 4			
Code	Module Name	NQF	Credit	Code	Module Name	NQF	Credit
CONE5111	Computer Networks 1A	5	15	CONE5112	Computer Networks 1B	5	15
PROG6221	Programming 2A	6	15	PROG6212	Programming 2B	6	15
PRSE6212	Principles of Security	6	15	INSY6211	Information Systems 2A	6	15
Year 3							
Semester 5				Semester 6			
Code	Module Name	NQF	Credit	Code	Module Name	NQF	Credit
INSY6212	Information Systems 2B	6	15	INSY7213	Information Systems 2C	7	15
PROG7311	Programming 3A	7	15	PROG7312	Programming 3B	7	15
PROG7313	Programming 3C	7	15	PROG7314	Programming 3D	7	15
Year 4							
Semester 7				Semester 8			
Code	Module Name	NQF	Credit	Code	Module Name	NQF	Credit
CLDV6211	Cloud Development A	6	15	CLDV6212	Cloud Development B	6	15
INSY7311	Information Systems 3A	7	15	INSY7314	Information Systems 3D	7	15
IRIT7311	Introduction to Research for ICT	7	15	INSY7315	Information Systems 3E	7	15

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## 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.
<p>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.</p> <p>If discipline not cognate at least 20% of credits must be academic literacy or numeracy related.</p>					
<p><b>Important Note for Students registering for the Distance mode of study:</b></p> <p>All candidates applying for admission to distance studies must submit a detailed motivation where they indicate whether they intend to complete the qualification as full-time students in 3 years, or as part-time students in 4 years. Students who plan to enrol as full-time students to complete in 3 years must demonstrate that they will not be working full-time while studying, and will have sufficient capacity and time to complete all modules in 3 years. Candidates might also be invited for an interview before a decision is finalised on whether they can enroll for the full-time distance or for the part-time distance option.</p>					
<p>Disclaimer: The 3 year structure will not be available in 2025.</p>					

## What are the benefits of an IIE distance (online) qualification?

The IIE's distance (online) delivery mode provides you with the agility of studying towards a tertiary qualification asynchronously, at different times from different locations. Distance students need to commit to approximately 20-25 hours a week for distance engagement (most of which is after hours) with material and assessments to succeed. Here are some of the benefits you can expect:

- A sequenced online learning environment that allows you the ability to manage your learning experiences flexibly and autonomously.
- A learner guide designed to lead you through the module material and learning outcomes, empowering you to effectively pace your learning in preparation for assessments.
- Our Learning Management System is designed to break up your learning units into manageable sections which include various activities to support learning.
- Module expert online lecturers that facilitate module teaching and learning support through various technology enhanced mediums.
- Online Success Navigators provide administrative and operational guidance and support throughout your academic journey.
- A professionally registered Student Wellness Manager/Counsellor available for short-term, primary counselling services. Additionally, the Student Wellness Manager/Counsellor hosts various webinars and virtual talks on topics that promote a balanced lifestyle as you pursue your academic goals.

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### Device specifications:

- The appropriate technology equipment and tools are essential to succeed in distance (online) study.
- A reliable internet connection (we recommend 5-10 GB of data per month), your own device with at least Windows 8 or macOS 10.15 (Microsoft Office 365 is available as a free download for IIE students), and Google Chrome, Microsoft Edge Chromium or Firefox.
- An uninterrupted power supply is also highly recommended.

### Examination centre options for assessments written on campus:

From 2024, we are planning to offer you the ability to write your exam online, which will be invigilated.

- Your device needs to fulfil the minimum requirements as above with internet connectivity, a working webcam and audio recording ability, with battery life sufficient for the exam duration in case of power outage once the exam has started.
- Whilst Android devices and tablets can be used for your studies, they cannot be used for online exams.
- You are responsible for making contingency plans in case of planned power outages.
- You need to be alone in a quiet environment for writing your exams online.
- Selected final semester exams as indicated on your Programme Assessment Schedule (PAS) can be written online, at an IIE campus, or at an approved exam centre where appropriate.

### Where assessments cannot be written online or students do not have access to an appropriate device:

- For students based in South Africa, online students may select any campus of The IIE's Varsity College, Rosebank College, Vega, or IIE MSA as their Examination Centre.
- An alternative examination centre is only permissible for students studying abroad and those located in a province of South Africa where there is no IIE campus. If there is no IIE campus within reach, an alternative venue will need to be sourced by you. For non-IIE venues, there is an alternative venue levy per module.

### How will The IIE's Varsity College support your online learning as a distance (online) student, and how will it help prepare you for the working world?

Our distance teaching and learning approach is designed to allow you the freedom to self-govern your learning experiences according to your individual needs. You are at the centre of your own learning journey, and by offering curated engagement opportunities, we partner with you to:

- Engage with subject material
- Build understanding
- Develop critical thinking and problem-solving skills
- Manage your work, life and studies
- Succeed in your personal, professional and academic goals

THE IIE IS ACCREDITED AS AN INDEPENDENT HIGHER EDUCATION INSTITUTION BY THE BRITISH ACCREDITATION COUNCIL.

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