Emeris

Bachelor of Computer and Information Sciences in Application Development



Faculty of Science & Technology
School of Computer Science

3 Years Distance Degree | NQF Level 7
360 Credits | SAQA ID: 97600 | BCAD0701

→ Online

Qualification Description

The Bachelor of Computer and Information Sciences in Application Development degree 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.

Who Is This Qualification Aimed At?

This Bachelor of Computer and Information Sciences in Application Development degree is aimed at students who are interested in the emergence of information technology, software development, programming, mobile application development across platforms, web development and database design. As well as gaining skill in troubleshooting, testing, connectivity, customisation and project management in the IT field.

How Will Emeris 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.

CONTACT FULL-TIME

DISTANCE (ONLINE)

Admission Requirements

Minimum Admission Requirements		English	Maths/HG	Math Lit/SG/ Technical Maths	Notes
	NSC: Bachelor's Degree 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's Degree 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 reach out to a Student Advisor.

Scan the QR Code to learn more about Alternate Admission requirements for:
RPL| Mature Age Exemptions | USAf International Students | One module outstanding from a Higher Certificate

Curriculum: Three Year Structure

Year 1							
Semester 1				Semester 2			
Code	**Module Name**	**NQF**	**Credits**	**Code**	**Module Name**	**NQF**	**Credits**
MAPC5112	Mathematical Principles for Computer Science	5	15	ITPP5112	IT Professional Practice	5	15
CONE5111	Computer Networks 1A	5	15	CONE5112	Computer Networks 1B	5	15
INSY5111	Information Systems 1A	5	15	INSY6112	Information Systems 1B	5	15
PROG5121	Programming 1A	5	15	PROG6112	Programming 1B	6	15
Year 2							
Semester 3				Semester 4			
Code	**Module Name**	**NQF**	**Credits**	**Code**	**Module Name**	**NQF**	**Credits**
CLDV6211	Cloud Development A	6	15	CLDV6212	Cloud Development B	6	15
PRSE6212	Principles of Security	6	15	INSY6212	Information Systems 2B	6	15
PROG6221	Programming 2A	6	15	PROG6212	Programming 2B	6	15
INSY6211	Information Systems 2A	6	15	INSY7213*	Information Systems 2C	7	15
Year 3							
Semester 5				Semester 6			
Code	**Module Name**	**NQF**	**Credits**	**Code**	**Module Name**	**NQF**	**Credits**
IRIT7311	Introduction to Research for ICT	7	15	*INSY7314	Information Systems 3D	7	15
INSY7311	Information Systems 3A	7	15	INSY7315	Information Systems 3E	7	15
PROG7312	Programming 3B	7	15	PROG7311	Programming 3A	7	15

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Please note, details are correct at the time of publication.

Year 3							
Semester 5				Semester 6			
Code	Module Name	NQF	Credits	Code	Module Name	NQF	Credits
PROG7313	Programming 3C	7	15	PROG7314	Programming 3D	7	15

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

Disclaimer: The option to complete the qualification in three years is available for full-time students, however, due to the demands of the qualification for practical modules in particular, it is only recommended for students who are studying this qualification on a full-time basis, which implies that your studies take up the majority of your available hours. Thus, for example, students also currently in full-time employment should study over a four year duration (please refer to the distance four year structure factsheet for further information).

Further Study Pathways

The successful completion of the Bachelor of Computer and Information Sciences in Application BCAD0701) degree (enables you to progress into the following qualification/s subject to meeting the admission requirements:

- Postgraduate Diploma in Data Analytics (PDDA0801)
- Bachelor of Computer and Information Sciences (Honours) (HCIS0801)

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

System and Software Requirements

- The appropriate technology equipment and tools are essential
- Reliable internet connection (we recommend 5-10 GB of data per month and an internet speed of at least 0.15 Mbps), your own device with at least Windows 11 or macOS 10.15 (Microsoft Office 365 is available as a free download for Emeris students), and Google Chrome, Microsoft Edge Chromium or Firefox
- An uninterrupted power supply is also highly recommended
- A working webcam and microphone
- For School of Computer Science students, it is advised that you purchase your own 500GB HDD and 8GB RAM minimum.
- Should you wish to run Android Studio on your laptop - you will need the following:
  - Processor: i5/i7
  - RAM: 32
  - HDD: 500GB SSD
- All students in the Bachelor of Computer and Information Sciences in Application Development degree will be provided with access to a Virtual Machine, where you will be able to run the software required for specific modules in your qualification. Students will be required to complete certain module specific assessments via their Virtual Machine.

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Graduation and Completion Requirements for This Qualification

In order to be awarded this qualification, you must have achieved a minimum final year mark of fifty percent (50%) for all 24 modules in the curriculum.

As a distance (online) student, this qualification is structured to be completed over 3 years. The maximum time for completing a qualification full-time is double the minimum time associated with the qualification, and for part-time an additional year is allowed.

Where Assessments Are Written in Person

- For students based in South Africa, online students may select any Emeris campus 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 campus. If there is no campus within reach, an alternative venue will need to be sourced by you. For non-Emeris venues, there is an alternative venue levy per module.

What Are the Benefits of a Distance (Online) Qualification?

The 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.
- Student Relations Specialists 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.

Apply Online

After your application is submitted, we will review your documentation and provide an outcome regarding your chosen study.

Follow us on social

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