Emeris

Bachelor of Computer and Information Sciences in Application Development

Faculty of Science & Technology
School of Computer Science

3 Years Full-Time Degree | NQF Level 7
360 Credits | SAQA ID: 97600 | BCAD0701

- Durban North
- Westville
- Pietermaritzburg
- Pretoria
- Sandton
- Ruimsig
- Newlands, Cape Town
- Nelson Mandela Bay
- Waterfall

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.

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.

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.

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 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

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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
IRIT7311	Introduction to Research for ICT	7	15	INSY7315	Information Systems 3E	7	15
INSY7311	Information Systems 3A	7	15	*INSY7314	Information Systems 3D	7	15
PROG7312	Programming 3B	7	15	PROG7311	Programming 3A	7	15
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.

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

Timetables

This qualification is aimed at students who wish to complete full-time face-to-face studies for the duration of their qualification. This means that students are expected to be available Mon-Fri 8:00 - 17:00 throughout the day for class in the academic year depending on how the timetable is structured.

Students must also note that timetables remain subject to change throughout the academic year.

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

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- 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.

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 contact 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.

Apply Online

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

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