

Admissions Criteria

1) Applicants are expected to have successfully completed secondary schooling. The typical entry requirement is BGCSE or IGCSE (in Botswana), LGCSE (in Lesotho) or other equivalent secondary school qualification.

2) BGCSE/equivalent with minimum Pass (D) in 5 subjects including English and Mathematics.

3) Applicants in possession of a Diploma or Higher Diploma in related field may be given exemptions based on the credit point equivalency.

4) For enquiries and more information please visit our website: www.bothouniversity.com

Bachelor of Science (Hons) in Computing

Programme details:

The programme consists of core (required) and elective modules as follow. Some modules may have pre-requisites (i.e. may require the student to pass another module or set of modules first). The number at the end of the module in parenthesis indicates the credit load of the module. 1 credit is equal to 10 hours of learning (guided, in-class and independent combined); therefore a 10-credit module requires on average 100 hours of learning from the student. B.Sc. (Hons) in Computing has three specialisation areas including: Software Engineering (SE), Network & Infrastructure Management (NW&IM) and General.

Core modules:

- C6-DMA-19: Discrete Mathematics (20)
- D5-CSS-14: Communication and Study Skills (20)
- C5 - ICO - 11: Introduction to Computers (20)
- C5 - MAT - 11: Mathematics for Computing (20)
- C5 - CSA - 11: Computer System Architecture (20)
- C5 - OSH - 11: Operating Systems & Hardware (20)
- C6 - QMD - 11: Querying and Managing Databases (40)
- C6 - IPC - 11: Introduction to Programming using C++ (20)

- C6 - DMO - 11: Database Management using Oracle (20)
- C6 - LIE - 19: Linux Essentials (20)
- C6 - WDD - 11: Web Design and Development (20)
- C7 - JAV - 11: Programming using Java (20)
- C7 - MD2 - 11: Managing Business Desktops 2 (20)
- C7 - ITP - 11: IT Project Management (20)
- C7 - DSA - 11: Data Structures and Algorithms (20)
- C7 - ADJ - 11: Advanced Java (20)
- C7 - NH1 - 11: Managing Network Hardware 1 (20)
- C7 - WN1 - 11: Windows Network Administration 1 (20)
- C7-PPR-11: Professional Practice (60)
- C7 - SEN - 11: Software Engineering
- C8 - IDE - 11: Interaction Design (20)
- C8 - LNA - 11: Linux Network Administration (20)
- C8 - NH2 - 11: Managing Network Hardware 2 (20)
- C8 - WN2 - 11: Windows Network Administration 2 (20)
- C8 - PRO - 11: Project (40)

Elective modules:

- C7 - PN1 - 11: Programming using .Net 1 (20)
- C7 - CP1 - 11: Designing Creative Publications 1(20)
- C7 - MD2 - 11: Managing Business Desktops(20)
- C8 - MAD - 11: Mobile Application Development (20)
- C8 - 3DA - 14: 3D Design and Animation (20)
- C8 - AIN - 19 : Artificial Intelligence (20)
- C8 - CP2 - 11: Designing Creative Publications 2 (20)
- C8 - PN2 - 11: Programming using .Net 2 (20)
- C8 - CLC - 19: Cloud Computing (20)
- B8 - ENT -13: Essentials of Entrepreneurship (20)
- E8 - ISD - 18: Innovation for Sustainable Development (20)
- C8 - APD -20 : Analytical Product Design

Recommended full-time study path for Software Engineering specialisation (4½ years):

*The programmes offered in this document are accredited by BQA and offered at Botho University at the time of print. Please refer to your offer letter from the admissions department for any changes in programme name or duration that may occur due to regulatory requirements.

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CSS - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - DMA - 19

Semester 3:

- C6 - QMD - 11, C6 - IPC - 11

Semester 4:

- C6 - DMO - 11, C6 - LIE - 19, C6 - WDD - 19

Semester 5:

- C7 - JAV - 11, C7 - SEN - 11, Elective: Select any one C7 - PN1 / C7 - CP1)

Semester 6:

- C7 - ITP - 11, C7 - DSA - 11, C7 - ADJ - 11

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - IDE - 11, First Elective: Select any one (C8 - AIN - 19/C8 - MAD - 11/C8 - 3DA - 14), Second Elective: Select any one (C8 - CP2 - 11/C8 - PN2 - 11/C8 - CLC - 19)

Semester 9:

- C8 - PRO - 11

Elective: Select any one

- (B8 - ENT - 13, E8 - ISD - 18
C8 - APD - 20)

**Recommended full-time study path for
Network & Infrastructure Management
specialisation (4½ years):**

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CSS - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - DMA - 19

Semester 3:

- C6 - QMD - 11, C6 - IPC - 11

Semester 4:

- C6 - DMO - 11, C6 - LIE - 19, C6 - WDD - 19

Semester 5:

- C7 - JAV - 11, C7 - NH1 - 11, C7 - MD2 - 11

Semester 6:

- C7 - ITP - 11, C8 - NH2 - 11, C7 - WN1 - 11

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - LNA - 11, C8 - WN2 - 11

Elective: Select any one: (C8 - AIN - 19, C8 - CLC - 19)

Semester 9:

- C8 - PRO - 11, Elective (one of B8 - ENT - 13, E8 - ISD - 18, C8 - APD - 20)

**Recommended full-time study path for
General specialisation (4½ years):**

Semester 1:

- C5 - ICO - 11, C5 - MAT - 11, D5 - CS5 - 14

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - DMA - 19

Semester 3:

- C6 - QMD - 11, C6 - IPC - 11

Semester 4:

- C6 - DMO - 11, C6 - LIE - 11, C6 - WDD - 19

Semester 5:

- C7 - JAV - 11, C7 - SEN - 11 Select one from Software (C7 - PN1-11/C7-CP1-11) Networking (C7 - MD2 - 11/C7-NH1-11)

Semester 6:

- C7 - ITP - 11, Select one from Software (C7 - DSA - 11/C7 - ADJ - 11) , Select one from Networking (C8-NH2-11/C7-WN1-11)

Semester 7:

- C7 - PPR - 11

Semester 8:

- C8 - IDE - 11, Select one from Software (C8 - MAD - 11/C8 - 3DA - 14/ C8 - CP2 - 11/C8 - PN2 - 11) and Select one from Networking (C8 - AIN - 19/C8 - CLC - 19/ C8 - LNA - 1/C8 - WN2-11)

Semester 9:

- C8 - PRO - 11, Elective (one of E8 - ISD - 18, B8 - ENT - 13, C8 - APD - 20)

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Program Version Course List



14-07-2022

<u>Course Code</u>	<u>Course Description</u>	<u>Credits</u>	<u>Elective List</u>	<u>Pre-Requisite List</u>	<u>Co-Requisite List</u>	<u>PreElect</u>	<u>ResourceList</u>
COM-8BH-19 Bachelor of Science (Honours) in Computing				Weeks:234.00 Credits: 540.00			
Core							
C5-CSA-11	Computer System Architecture	20.00					
C5-ICO-11	Introduction to Computers	20.00					MSOF10 - Microsoft Office 2010
C5-MAT-11	Mathematics -I	20.00					
C5-OSH-11	Operating Systems and Hardware	20.00					STDOS - Standard OS
C6-DMA-19	Discrete Mathematics	20.00					
C7-PPR-11	Professional Practice	60.00					
D1-FYE-16	BGP workshops	0.00					
D5-CSS-14	Communication and Study Skills	20.00					
C6-QMD-11	Querying and Managing Databases	40.00		C5-ICO-11 - Introduction to Computers			MSSQL12 - Microsoft SQL server 2012
C6-WDD-19	Web Design and Development	20.00		C5-ICO-11 - Introduction to Computers C6-CE2-20 - Computer and its Essentials 2			
C6-IPC-11	Introduction to Programming Using C++	20.00		C5-MAT-11 - Mathematics -I			TURC++ - Turbo C++, MSOF10 - Microsoft Office 2010
C6-LIE-19	Linux Essentials	20.00		C5-OSH-11 - Operating Systems and Hardware			

14-07-2022

<u>Course Code</u>	<u>Course Description</u>	<u>Credits</u>	<u>Elective List</u>	<u>Pre-Requisite List</u>	<u>Co-Requisite List</u>	<u>PreElect</u>	<u>ResourceList</u>
C6-DMO-11	Database Management Using Oracle	20.00		C6-QMD-11 - Querying and Managing Databases			MSSQLD - Microsoft SQL Developer, MSSQLD - Microsoft SQL Developer
C8-PRO-11	Project	40.00		C7-PPR-11 - Professional Practice			
<hr/> 14 <hr/>		<hr/> 340.00 <hr/>					
<hr/> 14 <hr/>		<hr/> 340.00 <hr/>					