

MODULES
2020/21



FACULTY OF ENGINEERING & TECHNOLOGY

BSc (HONS) IN NETWORK
SECURITY AND
COMPUTER FORENSICS

<https://botswana.bothouniversity.com/>



BSc (HONS) IN NETWORK SECURITY AND COMPUTER FORENSICS



The Bachelor of Science (Honours) in Network Security and Computer Forensics is targeted at those wishing to enter the Information Technology (IT) sector as Computer Forensic Analysts, Vulnerability Security Research Engineers, Digital Forensic Examiners, Malware Media Forensic Analysts, Forensic Auditors, Network Security Specialists, Computer Crime Investigators or Security Analysts, among other things.

Programme details

The programme consists of core (required) and elective modules. Some modules may have pre-requisites (i.e. may require the student to pass another module or set of modules first) while some modules may be co-requisite (i.e. such modules are required to be taken together).

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.

Core Modules

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| <ul style="list-style-type: none">• C5 - ICO - 11: Introduction to Computers (20)• C5 - MAT - 11: Mathematics for Computing (20)• D5 - CSS - 14: Communication & Study Skills (20)• C5 - CSA - 11: Computer Systems Architecture (20)• C5 - OSH - 11: Operating Systems & Hardware (20)• C6 - IPC - 11: Introduction to programming using C++ (20)• C6 - QMD - 11: Querying & Managing Database (40)• C6 - FNS - 13: Fundamentals of Network Security (20)• C6 - LIE - 19: Linux Essentials (20)• C7 - IDS - 13: Information and Data Security (20)• C6 - CFD - 13: Computer Forensics and Data Recovery (20) | <ul style="list-style-type: none">• C7 - JAV - 11: Programming using Java (20)• C7 - PCS - 19 Principles of Cyber Security (20)• C7 - BIF - 13: Biometric Fundamentals (20)• C7 - NH1 - 11: Managing Network Hardware 1 (20)• C7 - EHK - 13: Ethical Hacking (20)• C7 - CYL - 17: Cyber Law (20)• C7 - PPR - 11: Professional Practice (60)• C8 - NH2 - 11: Managing Network Hardware 2 (20)• C8 - MAN - 13: Malware Analysis (20)• C8 - PRO - 11: Project (40) |
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Elective modules:

Select One from the following:

- C8 - CCI - 13 Cyber Crime Investigation (20) or C8

WNA - 13 Windows Network Administration (20)

Semester 1:

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

Semester 2:

- C5 - CSA - 11, C5 - OSH - 11, C6 - IPC - 11

Semester 3:

- C6 - QMD - 11, C7 - NH1 - 11

Semester 4:

- C6 - CFD - 13, C6 - LIE - 19, C6 - FNS - 13

Semester 5:

- C7 - JAV - 11, C7 - PCS - 19, C7 - BIF - 13

Semester 6:

- C7 - EHK - 13, C7 - CYL - 13, C7 - IDS -13

Semester 7:

- C7 - PPR - 11,

Semester 8:

- C8 - NH2 - 11, C8 - MAN - 13

- Elective (one of C8 - WNA - 13, C8 - CCI - 13)

Semester 9:

- C8 - PRO - 11, Elective (E8 - ISD - 18, B8 - ENT - 13)

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 an equivalent secondary school qualification.
- 2) Candidates are required to achieve a minimum pass in five subjects and 10 points in English and Mathematics, with a minimum of a C in Mathematics or 32 points and above in the best 5 subjects with a minimum of a C in 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