



GENERAL INFORMATION

- Degree: Bachelor of Science in Computer Science: Cyber Security/ Cloud Technologies (Awarded by Staffordshire University)
- Duration: 3 years (full-time)

KEY FEATURES

Students will gain crucial foundational knowledge in Computer Science regarding digital technologies, networks, application programming and web development before having the opportunity to choose from 2 different degree pathways.

The first pathway is our BSc (Hons) Computer Science: Cyber Security award which is designed to not only teach students about the technical side of protecting both software and hardware from malicious attacks, but also the necessary skills that will allow our students to thrive inside of an I.T. business environment. By the end of the course students will have an expert-level knowledge in specialist areas including network security and ethical hacking.

The second is our BSc (Hons) Computer Science: Cloud Technologies award which will provide students with a deep technical understanding of "The Cloud" along with practical and theoretical experience in using multiple features of cloud computing technologies. You will develop an expert level understanding of computer networks, communication and security through critical discussion and practical exercises.

ENTRY REQUIREMENT

- 17 years old and above and have both:
- Completed Year 12 (or equivalent)
- A pass in a University Foundation Year
- British University Vietnam allows direct entry to qualifications where a student has satisfied the below requirements:
 - Obtained satisfactory English Language with IELTS score of 6.0+ (each component must score a minimum 5.5) or TOEFL (IBT) 87 (Minimum component scores: Listening 17, Speaking 20, Reading 18 and Writing 17) or equivalent and have passed at least one of the following options:
 - 2 subjects at Advanced GCE (A Level)
 - An access program passed at the required QAA- recognized standard for entry to Higher Education
 - International Baccalaureate diploma with minimum of 24 points

Career opportunities:

- The fields that a Cyber Security graduate can enter are vast and appeal to many different preferences. Firstly, for graduates that prefer looking at the big picture, then the roles of Security Architect or Vulnerability Assessor are most suitable. These professions focus providing solutions of protecting the most vulnerable aspects of a company's infrastructure. Secondly, for graduates that enjoy the technical side, then Cryptographer or Security Software Developer would be the most ideal roles. These roles require writing the programs that encode and decode messages. Finally, for graduates that want to test security systems to their limits, then Penetration Tester or Ethical hacker would be best. These professionals are hired by companies to work day and night trying to break and enter systems (legally).

- Cloud Technologies: 2018 was the year of the cloud as cloud computing exploded in the business world. It is estimated that currently 96% of all organisations use cloud computing in one way or another. Therefore, the demand for cloud computing experts is extremely high as although moving all confidential information to the cloud has benefits financial and logistically, it brings with it higher risk of lost information or theft. Our graduates will be positioned to handle roles such as Software Architect, Cloud Engineer and Network Implementation Specialists.

COURSE MODULES

YEAR 1

- ✓ Software Development and Application Modelling
- ✓ Digital Technologies
- ✓ Networking Concepts and Cyber Security
- ✓ Web Development and Operating Systems

YEAR 2

BSc (Hons) COMPUTER SCIENCE: CYBER SECURITY

- ✓ Commercial Computing
- ✓ Cyber Operations and Network Security
- ✓ Ethical Hacking
- ✓ Cyber Security

BSc (Hons) COMPUTER SCIENCE: CLOUD TECHNOLOGIES

- ✓ Commercial Computing
- ✓ Databases and Data Structures
- ✓ Routed and Switched Architectures
- ✓ Enterprise Cloud and Infrastructure Automation

YEAR 3

BSc (Hons) COMPUTER SCIENCE: CYBER SECURITY

- ✓ Final Year Project
- ✓ IT Infrastructure Security
- ✓ Advanced Topics in Cyber Security
- ✓ Operating Systems: Internals and Biometrics

BSc (Hons) COMPUTER SCIENCE: CLOUD TECHNOLOGIES

- ✓ Final Year Project
- ✓ Emerging Technologies
- ✓ Cloud, Virtualisation and Communications
- ✓ Developing for the Cloud