Computing (Internet Technology and Security)

HND

Continued growth of the global internet is one of the most interesting and exciting phenomena in computing.

Course content

Today an entire industry has emerged that develops internet technology and security products and services, which has produced a strong demand for people with relevant knowledge and expertise. Companies need professionals to design, develop, install, operate, program and manage their computer systems that comprise the internet and intranets.

This course aims to equip students with the necessary knowledge and skills for the existing and emerging challenges that a career in internet technology and security will entail. It is designed to produce high quality graduates who show independent thought, flexibility and maturity based on a sound technical knowledge of the broad aspects of internet technology and security.

The modular curriculum offers opportunities for module selection to suit an individual's chosen career pathway. There is also a high practical content to reinforce academic underpinnings in specialist laboratories and students will acquire highly relevant vocational skills. A key advantage of the computing courses is that all students share a common first stage with flexible progression on to any of the computing degree courses. For those embarking on the HND route, transfer to the BSc (Hons) courses is possible at the end of stage one or two, depending on grades.

Stage one

Stage one of the computing courses is common to all and focuses on the fundamental computing principles. These are covered in the six stage one modules of computer systems, computer networks, internet technology and security, software engineering, problem solving and programming and computing mathematics.

Stage two

Stage two focuses on the study of topics that are relevant to the design and development of applications for the internet. Study includes computer networks,

Course level

Undergraduate

Modes of study

Full time

UCAS or UKPASS details

UCAS code: 005G
UCAS description: HND/CIT

School

School of Science and Technology

Location

Avenue Campus

Course contact

study@northampton.ac.uk

Avenue Campus
St George's Avenue
Northampton
NN2 6JD

Park Campus
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modern networks, internet programming, database technology and systems design and development. Students also take part in a challenging group project to design and implement a web-based application.

Special course features

- Modular curriculum with opportunities for module selection to suit an individual's chosen career pathway

- High practical content to reinforce academic underpinnings in specialist laboratories

- Common first stage with flexible progression onto any of the computing degree courses

Typical modules

- Artificial intelligence techniques

- Database technology

- Internet programming

- Internet and computer security

- Media technology

Types of assessment

Students are assessed by a variety of coursework only or coursework and end-of stage examinations depending on the module.

Entry requirements

Applicants must have 120-140 UCAS tariff points. In addition to standard entry requirements, applicants will be expected to have achieved GCSE Mathematics (or equivalent) at grade C or above. Previous experience of computing is desirable.

Career opportunities

Internet technology and security skills are in high demand by employers from all sectors, who need professionals to design, develop, install, operate, program and manage their computer systems.

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