Intermediate Software Development with Cyber Security *(SCQF Level 5)*
Full-time

Where can I study?

Location	Duration	Course code
Aberdeen City Campus	1 Year	QBOSC

Introduction to the course

Are you interested in developing programs and wonder how they are made? This course will focus on the fundamentals of computer programming and the main languages used in programming, such as HTML, CSS, and Python and why these languages are used.

There is also an opportunity to learn about Cyber Security with our embedded NPA in Cyber Security, which will focus on the scripting you have created earlier in the year and give you an opportunity to use some of those programs to test vulnerabilities in a computer system and how the malicious individuals can exploit these vulnerabilities.

You will also have the opportunity to learn some apps development and create your own app.

Entry requirements

The entry requirements for this course are either two National 4's at grades at C or above, preferably a Computing or IT based subject or a recognised Computing course at SCQF Level 4.

What subjects will I be studying?

You will learn how computer apps are made and how to make a website that is user friendly, and you will explore how Python is used in Cyber Security and Application Development.

You will use Raspberry PI's to build some programs that can run old games, such as old school Mario and Donkey Kong, and create your own Retro Gaming console using a Raspberry PI. There may be potential to visit a local gaming studio.

Assessment methods

On this course you will be assessed continually throughout the year. Modules have both practical and theoretical aspects.

Dress code

Students should dress appropriately for practical, hands-on work, as you will be working in a lab environment. Hats and hoodies should not be worn in class.

Course progression

Completion of this course can lead onto the Advanced Computing with Cyber Security course at SCQF Level 6. HNC Computing, HNC Cyber Security, HND Computing: Technical Support with Cyber Security or the HND Digital Design & Development (Web Development) courses.

University progression

You cannot progress to university directly from this course, but successful completion of a more advanced course may allow you to apply for a place on a degree programme.

Useful contacts

Head of Faculty:	**Cameron Walker** Head of Faculty, Computing Technologies and Science, Aberdeen City Campus Email: c.walker@nescol.ac.uk
Curriculum Manager:	**Shane Johnson** Curriculum Manager, Aberdeen City Campus Email: sh.johnson@nescol.ac.uk

Academic Tutor

Once you come to College you will be allocated an academic tutor, who will be your initial point of contact. You will meet your tutor at least once a term during tutor hour — they are also the person to go to for the following:

- **Induction:** You will be invited to come in the week before your course starts for your induction. Your tutor will cover key aspects of life at the College to make sure you are well prepared for your NESCol experience.
- **Initial support:** Your tutor is the first point of contact for academic, personal and social support.
- **Attendance:** Your attendance and progress while you are at college, will be monitored by your tutor.
- **Additional support needs:** If you have indicated that you have additional learning or support needs, speak to your tutor who will refer you to the Student Advice and Support team for needs assessment as soon as practically possible.
- **Transitions:** your tutor will keep you informed of the many activities and events organised by the College to support you with career choices, employability, enterprise and articulation guidance and advice.

Student Advice Centre

The Student Advice Centre is your one stop shop for all information and support during your time at NESCol. Staff based within the centre provide impartial and confidential information and advice on a range of issues including:

- Applications and course advice
- Funding and money management
- Careers, employability and enterprise
- Transitions to college and university
- Key Skills and Study Skills support
- Additional Support for Learning
- Assistive technologies
- Mental health and wellbeing advice
- Care Experienced and Corporate Parenting
- Tier 4 and international admissions

Learning Resources

My NESCol
My NESCol is the College's student web portal that will provide you with on–demand access to all of the links, news and

services that you will use once you have enrolled. It's accessible via any computer, and as an Android or Apple app. It's easy to use, and you can even receive important alerts on your device!

Blackboard

Blackboard is the Virtual Learning Environment system used in the College, where you can find a host of useful information and access your courses online. It will be the main platform that your lecturers will use to make resources available to you including interactive materials, videos, assessments and feedback.

IT HelpZone

The IT HelpZones are run by students, for students, and there are helpdesks located in main social areas at the Aberdeen and Fraserburgh Campuses, and a dedicated helpline at our Altens Campus. You can drop in, email or telephone for assistance.

Library+

Each Library offers thousands of resources for study, including books, journals, e–books, e–journals and magazines — all relevant to the courses on offer at the campus in which they are situated. They also offer quiet, silent, individual, and group study facilities.

Bring Your Own Device (BYOD)

NESCol believes that your learning and teaching experience at College can be enhanced significantly by use of a mobile device, such as a tablet or a laptop. For this reason, many students are required to bring a device with them to College. This initiative is known as Bring Your Own Device (BYOD) and its aim is to provide learners with a more bespoke and student-centred learning experience.

Digital Skills Space

Located within each Library Plus facility you will find a dedicated Digital Skills Space, featuring Bring Your Own Device (BYOD) workspaces and dedicated desktop PC work areas. These spaces are also used to deliver core IT teaching, drop–in IT support and scheduled digital skills workshops. You can also use these spaces for flexible access to PCs during Library+ opening hours.

College Calendar

Have a look at our College Calendar for further information on key dates throughout the year.