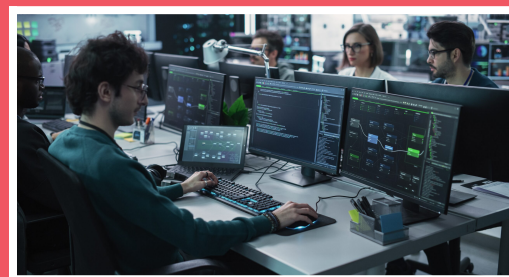


Higher National Level 4 Flex – Computer Programming



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|---------------|------------------------|
| Subject Area | Digital |
| Course Type | Higher Education |
| Study Level | Level 4 |
| Delivery Mode | Part-time |
| Location | David Hockney Building |
| Duration | 12 Weeks |
| Start Date | September 2025 |
| Course Code | HA000001 |

View on bradfordcollege.ac.uk



Course Summary

If you're looking to get into coding or want to build a solid foundation in software development, this 12-week course is a great place to start. It's hands-on, beginner-friendly, and designed to give you the core programming skills you need to take your next step – whether that's into a tech career or further study.

Over the course of 12 weeks, you'll learn how to write and understand code using a popular programming language like Python, Java, or C#. You'll dive into key topics like variables, loops, functions, and object-oriented programming. Along the way, you'll also explore data structures, algorithms, and how to connect your programs to a database.

This course isn't just about theory—you'll be doing lots of practical work, building mini-projects, solving real problems, and even working on a final project that brings everything together. You'll also get a taste of what it's like to work in software development, including version control, testing, and modern development practices like Agile.

By the end, you'll be able to write clean, functional code, build simple applications, and

understand how software is developed from start to finish. It's the perfect launchpad if you're ready to get into tech, switch careers, or just want to understand how programming really works.

This programme is a short course, delivered as part of a longer programme of a longer HNC or can be completed as a standalone module. It is delivered through blended learning which means a combination of face to face and online delivery sessions.

What You Will Learn

This course covers fundamental programming concepts, including writing, testing, and debugging code, as well as exploring various programming languages and paradigms. Topics covered include introductory algorithms, procedural, object-oriented, and event-driven programming, security considerations, the integrated development environment (IDE), and the debugging process.

Modules

- Programming fundamentals
- Writing, testing, and debugging code
- Programming languages and paradigms

Progression

Each module is worth 15 credits. If you successfully complete one, two or three modules, you will receive a Certificate of Unit Credit (CoUC) upon completion of the individual units. If you finish 8 units, you will awarded a HNC. You can progress onto other units, and then onto a HNC or HND.

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