# Computing HTQ

The Higher National Diploma in Computing offers the option of a range of general and specialist study units to suit each student's choice of programme and future progression plans of which there are three pathways to choose from:

Cyber security

Designed to provide you with a range of skills, knowledge and experiences to prepare you for a career in this evolving industry. As security and privacy issues are becoming increasing threats, you'll be on the front-line ready to deal with a wide range of risks and challenges.  It will provide an opportunity to gain knowledge of security, the associated risks and how it has an impact on business continuity.by examining security measures involving access authorisation and regulation of use. It will introduce how to detect threats and vulnerabilities in physical and IT security, and how to manage risks relating to organisational security.

It provides a programme of study that covers the understanding and practical skills required in the digital forensics, cybersecurity and cyber defence sectors

Software engineer

Designed to provide you with understanding software development projects from the very beginning, the software development lifecycle, and understanding the required functionality and features of the system or software. You will have the opportunity to understand user and client requirements, plan what needs to be developed and how such as choosing frameworks, tools and languages. This will allow for the development that follows key scientific and engineering principles, as well as the established processes for development. The world of programming and software engineering is vast and includes many occupational pathways to pursue

Network engineering.

Designed to provide you with wider background knowledge of computer networking essentials, how they operate, protocols, standards, security considerations.  It will provide an opportunity to explore a range of networking technologies to deliver a fundamental knowledge of Local Area Networking (LAN), Wide Area Networking (WAN) and their evolution to form large-scale networks. the protocol methodologies related to IP data networks. and the prototypes associated with a range of networking technologies Computer networks are the driving force behind the evolution of computer systems and allow users to access data, hardware, and services regardless of their location.

Gloucestershire College offers you an expert tutorial system, providing support to develop your professional and personal educational abilities. Also, the necessary qualities and attitudes required to attend to and adapt with the demands of this growing and emerging technology market.

What will I study?

Programming
Networking
Professional practice
Database design and development
Security
Planning a computing project
Software development lifecycles

And 2 optional depending on chosen pathway which may include


Network management
Network Security
Forensics
Internet of Things
Cloud Computing
Emerging Technologies
Application development

(This list is not exhaustive)

The exact combination of units delivered can be discussed with students in the application stage.

If you need information about a loan for your fees and other related information, try The Student Loan Company www.slc.co.uk/services/higher-education.aspx   Fees quoted on Gloscol website page are per year of study.

Please be aware we do require you to apply via UCAS https://www.ucas.com//apply .

Information you will need to complete your UCAS application is as follows:

The UCAS code for HND Computing Is IHQ5

The UCAS institution code for Gloucestershire College is G45

Please see Gloucestershire College's Admissions Policy and Code of Practice available at http://www.gloscol.ac.uk/about-us-and-jobs-at-gc/partnerships-and-governance/governance/policies (subject to agreed amendments).  Gloucestershire College's Admissions Policy and Code of Practice has been written based on guidance from external bodies that regulate consumer law, customer protection and education standards.  If you have any queries about either Gloucestershire College's Admissions Policy or Code of Practice, please contact Gloucestershire College's Admissions department via telephone 01242 532008 or applications@gloscol.ac.uk

Please note that modules could be subject to change but any such changes, to module delivery, would be in consultation with the students.

## Entry Requirements

Course Entry Point: Year 1Typical Offers48 UCAS tariff points:A Levels at grade DDBTEC National at grade PPPT Level at grade P (D or E)Access to Higher Education at grade P45Advanced ApprenticeshipCourse Entry Point: Year 2 (Direct Entry)Typical OffersHigher National Certificate PASS (120 Credits) in a comparable and relevant subject

GCSE Maths and English Requirements

To study Higher Education at Gloucestershire College, normally applicants will be required to have GCSE English and Mathematics grade 4 (C) or above or have comparable/equivalent qualifications.

English Language Requirements

If English isn't an applicant's first language they will be required to have a minimum IELTS score of 5.5 across all components. The College also accepts a range of international English qualifications and English language tests that demonstrate the required level of English language proficiency.

Gloucestershire College welcome any other/combinations of relevant qualifications that are comparable and/or equivalent to the typical course entry requirements.

Applicants that do not have recognised qualifications may still meet course entry requirements through alternative methods of assessment at the College's discretion.

All queries regarding course entry criteria including the equivalency of qualifications and exceptional extenuating circumstances should be directed by email to the Admissions Department through applications@gloscol.ac.uk.

## What's Next

## Your Options

|  | Start Date | End Date | Course Level |
|---|---|---|---|
| **Computing HTQ** (Full **Time**) | | | |
| Cheltenham | 18/09/24 | 28/06/26 | 5 |

Apply now at www.gloscol.ac.uk or call 0345 155 2020