



Find your place  
in the fast-growing  
industry of  
computing and digital  
technologies!

# COMPUTING



**Awarding Body:**  
Pearson Education Ltd

**Licensed by:**  
Ministry of Education and  
Higher Education in Qatar

**3 Intakes per year:**  
September, January and April  
(on a term basis)

**Mode of Study:**  
Full-time (day classes)  
Part-time (evening/weekend classes)

**Awarded Qualifications:**  
HIGHER NATIONAL CERTIFICATE (HNC - Level 4)  
HIGHER NATIONAL DIPLOMA (HND - Level 5)

CHOOSE A HIGHER EDUCATION  
PROGRAMME IN COMPUTING,  
AND YOU'RE CHOOSING TO BE  
PART OF A GROWING AND EVOLVING  
SECTOR, INTEGRAL TO THE MODERN  
WORLD.

GET THE CHANCE TO INVESTIGATE  
THE WIDE REACHING INFLUENCES  
THAT COMPUTERS AND DIGITAL  
TECHNOLOGIES HAVE ON THE  
WORLD, MAKE YOUR OWN  
CONTRIBUTIONS AND FIND YOUR  
PLACE IN THIS FAST- GROWING  
SECTOR!

The HNC and HND qualifications in  
Computing at City College offer a choice  
of a general computing strand at Level 4  
and one general and three specialist  
pathways at Level 5.

## APPLY NOW!

[www.citycollege.edu.qa/apply-now/](http://www.citycollege.edu.qa/apply-now/)

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 CityCollege\_Qatar

# WORK-RELATED LEARNING WITH INDUSTRY ENGAGEMENT LEADING TO A REAL CAREER PROGRESSION

Students take a total of 15 units (240 credits) to gain their diploma over the course of two years of full-time study:

**Year 1, 120 credits, 8 units in Level 4**  
(15 credits each unit)

**Year 2, 120 credits, 7 units in Level 5**  
(one 30-credit unit, and six 15-credit units)

For part-time students, the programme is delivered over two evenings per week. The duration of the programme is two years and six months.

## A FORWARD-LOOKING CONTEMPORARY STYLE OF EDUCATION:

- PRACTICAL AND ENGAGING
- CONTEXT-SPECIFIC
- FOCUS ON SKILLS DEVELOPMENT
- FLEXIBLE DELIVERY
- SUPPORTIVE ENVIRONMENT
- CAREER ADVANTAGE

During their course of study, students will be required to supplement their classroom-based education with independent study in the form of research, homework tasks or group work. BTEC students will enjoy varied learning through lectures, guest speakers, seminars, individual and group work, practical sessions, role play and experiential learning.

Self-study is vital to students' success in this course, and lecturers will guide them throughout the study period on how best to approach independent study.

Students will develop the practical and managerial skills required to work in the travel and tourism sector and gain transferable skills such as research skills, verbal and non-verbal communication, teamwork, problem solving and analytical skills.

No formal examinations are required for the course. Assessments of the BTEC are undertaken in various ways such as writing assignments, analysing case studies, delivering presentations, completing portfolios of evidence or writing reports.

## HIGHER NATIONAL CERTIFICATE (HNC)

At Level 4, you will develop a broad knowledge and awareness of key aspects of the computing sector through six mandatory core units and other units. You will gain a wide range of sector knowledge tied to practical skills gained in research, self-study, directed study and workplace scenarios and get prepared for subject specialisation at Level 5.

## HNC IN COMPUTING (LEVEL 4 / 8 UNITS / 120 CREDITS)

Level 4 consists of 8 units; each unit has a clear purpose: to cater for the increasing need for high quality professional and technical education pathways, providing students with a clear line of sight to employment or progression to pursue your Bachelor degree at City College, awarded by Ulster University.

### Core Units:

- :: Programming
- :: Networking
- :: Professional Practice
- :: Database Design and Development
- :: Security
- :: Managing a Successful Computing Project

### Other Units:

- :: Strategic Information Systems
- :: Data Analytics

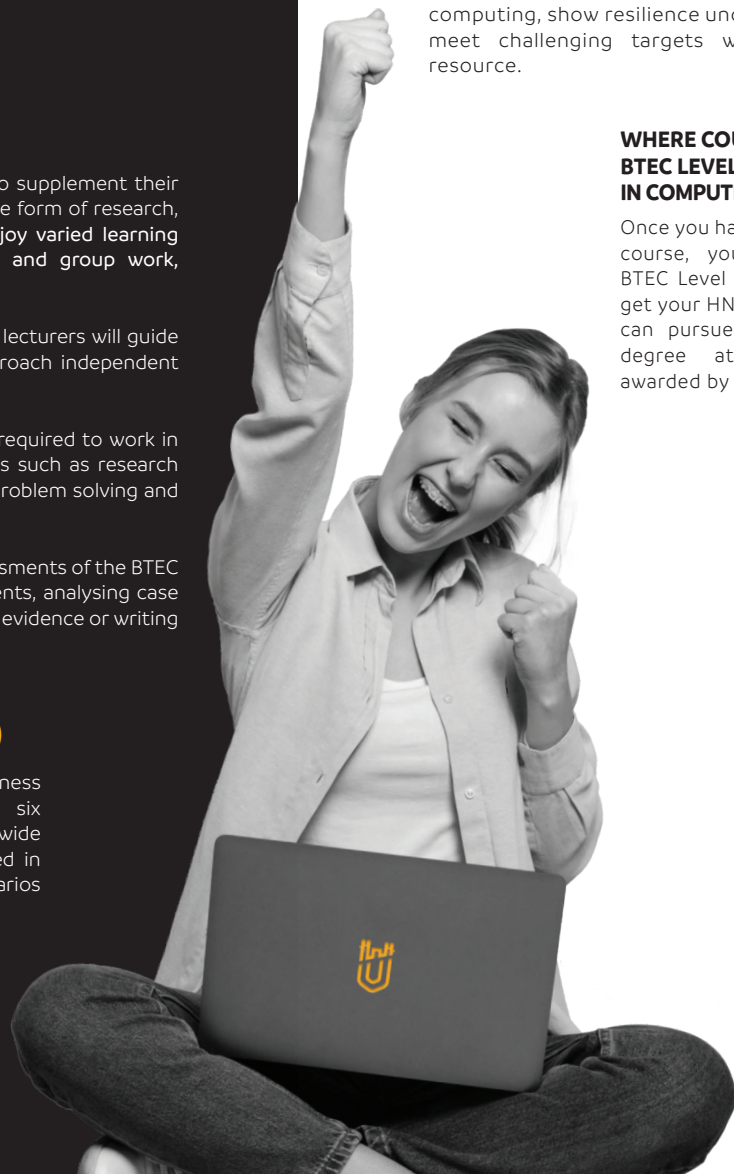
\*All units offered in Level 4 are valued at 15 credits.

### LEARNING OUTCOMES:

After successfully completing the BTEC Higher National Certificate in Computing, you will be able to demonstrate a sound knowledge of the basic concepts of computing. You will be able to communicate accurately and appropriately and you will have the qualities needed for employment that requires some degree of personal responsibility. You will have developed a range of transferable skills to ensure effective team working, independent initiatives, organisational competence and problem-solving strategies. You will be adaptable and flexible in your approach to computing, show resilience under pressure, and meet challenging targets within a given resource.

### WHERE COULD BTEC LEVEL 4 HNC IN COMPUTING TAKE YOU?

Once you have completed the course, you can move to BTEC Level 5 Computing and get your HND after which you can pursue your Bachelor's degree at City College, awarded by Ulster University.



# HIGHER NATIONAL DIPLOMA (HND)

The BTEC Level 5 Higher National Diploma in Computing offers students one non-specialist General Computing pathway and three specialist pathways that concentrate on a particular aspect of computing.

Computing Level 5 Pathways Offered at City College include:

- General Computing
- Software Engineering
- Data Analytics
- Application Development

These pathways are designed to support progression into relevant occupational areas or complete your Bachelor degree at City College, awarded by Ulster University.

## GENERAL COMPUTING

(HND - LEVEL 5 / 7 UNITS / 120 CREDITS)

### Core Units:

- :: Research Project \*
- :: Computing Intelligence

### Specialist Units:

- :: Discrete Maths
- :: Data Structure and Algorithms
- :: Data Mining

### Other Units:

- :: Systems Analysis and Design
- :: Emerging Technologies

## SOFTWARE ENGINEERING

(HND - LEVEL 5 / 7 UNITS / 120 CREDITS)

### Core Units:

- :: Research Project \*
- :: Computing Intelligence

### Specialist Units:

- :: Discrete Maths
- :: Data Structure and Algorithms
- :: Advanced Programming

### Other Units:

- :: Systems Analysis and Design
- :: Emerging Technologies

## DATA ANALYTICS

(HND - LEVEL 5 / 7 UNITS / 120 CREDITS)

### Core Units:

- :: Research Project \*
- :: Computing Intelligence

### Specialist Units:

- :: Discrete Maths
- :: Data Mining
- :: Applied Analytical Models

### Other Units:

- :: Systems Analysis and Design
- :: Emerging Technologies

## APPLICATION DEVELOPMENT

(HND - LEVEL 5 / 7 UNITS / 120 CREDITS)

### Core Units:

- :: Research Project \*
- :: Computing Intelligence

### Specialist Units:

- :: Prototyping
- :: Application Programme Interfaces
- :: Application Development

### Other Units:

- :: Systems Analysis and Design
- :: Emerging Technologies

\* These units are valued at 30 credits.  
All other units are valued at 15 credits.

# COMPUTING



## ADMISSIONS REQUIREMENTS

### LEVEL 4

English: IELTS 5.5 or equivalent

### One of the following:

International Foundation Diploma

One A - Level (PASS)

IB Certificate (minimum 24 points)

BTEC Level 3 at Advanced Diploma level

Other international qualifications will be considered on merit for equivalency with the above requirements.

Schooling education must be a minimum of 13 years.

### LEVEL 5

120 credits from year one HNC or equivalent

## LEARNING OUTCOMES:

As a holder of the Pearson BTEC Higher National Diploma, you will have developed a sound understanding of the principles in your field of study and will have learned to apply those principles more widely. You will have learned to evaluate the appropriateness of different approaches to solving problems. You will be able to perform effectively in your chosen field and will have the qualities necessary for employment in situations requiring the exercise of personal responsibility and decision-making.

## WHERE COULD BTEC LEVEL 5 HND IN COMPUTING TAKE YOU?

Once you have completed the course, you can convert your Computing HND into a full Bachelor's Degree at City College, awarded by Ulster University. Alternatively, you could seek a career in computing in roles such as application developer, software engineer or systems administrator.

