Course Information

CITY OF WOLVERHAMPTON COLLEGE

Digital Technologies Pearson BTEC Level 4 Higher National Certificate

Study Mode: Full-time | Course Level: 4

Is this course right for me?

Are you passionate about computing and digital technology?

Are you keen to learn more about database technologies, networking, programming, network security, software development and Artificial Intelligence?

If so, this course is the one for you!

You will have the opportunity to develop your practical skills and knowledge in the above areas and gaining the HNC qualification will enable you to pursue a career in computer systems maintenance, systems analysis and design, networking, network security, programming and database development or progress to university

Entry Requirements

To access this course, you are required to have:

 Completed a full Level 3 qualification in a computing-related area - this could be an A Level in Computing, BTEC National Extended Diploma in ICT or T-Level in Digital Support Services

 Maths and English GCSE (or equivalent) at Grade 4 or above

Consideration will also be given to:

 Employees with a Level 3 modern apprenticeship

 Applicants with an Access to Higher Education qualification

Mature applicants who work/have worked in IT and /or computing and are assessed as being able to study at this level

What will I learn?

During this course you will study: (modules)

 Professional Practice in the Digital Economy

 Innovation and Digital Transformation

 Cyber Security

 Programming

 Networking

 Database Design & Development

 Fundamentals of Artificial Intelligence (AI) & Intelligent Systems

 Project Management

What skills will I gain?

By studying this course, you will:

 Explore the importance of professional development for career success and the benefits of working towards goals.

 Look at several tools and techniques that organisations use to transform and become more innovative in their approach to digital technology.

 Explore the nature of cybercrime and cyber threat actors; investigate roles and responsibilities in relation to information assurance; assess the threats to, and vulnerabilities in, ICT infrastructure; and investigate strategic responses to cyber security threats

 Learn the fundamentals of networking and how to put theory into practice by exploring a range of hardware, with related software, and will configure and install these to gain knowledge of networking systems.

 Analyse an existing system and use this as a basis to design and implement a database

Learn the core concepts of programming and how to develop algorithms and programmes to solve real world problems

 Investigate AI fundamentals, including data gathering, validation and processing and how the results can be visualised and explained. You will develop a skillset to study deployed intelligent systems and evaluate technical and ethical challenges and opportunities.

 Define a project, create project plans, set up the delivery of a project, execute and review the outputs, and understand the outcomes - how the project fits into the wider business planning strategy of an organisation.

 Learn flexible and transferable specialised techniques and underpinning knowledge directly relevant to the IT and computing profession in which you are currently working or hope to work in the future

 Develop a range of interpersonal skills essential for success in your working life

How will I be assessed?

This is an assignment-based course so there are no exams.

You will be continually assessed throughout the programme and assessment methods used could include:

 Portfolio of work

 Technical assessments (creating programs, databases, managing and securing networks)

 Tutor observation

 Reports

 Group presentations

 Peer assessment

 Individual presentations

 Practical group work

 Witness testimonies

 Student-defined project via negotiated briefs

 Evaluative reports

 Reflective journals

What can I do next?

HNCs are designed to give you the practical and vocational skills of a particular field of work which can then lead straight to a career.

You can also use the qualifications to progress within your current career, for example as a steppingstone to gaining professional status.

Once you complete and pass your course you can progress on to the HND in Digital Technologies and then on to university.

Why study with us?

We have excellent retention and achievement rates, with excellent feedback from our previous students, many of whom have gone on to become lecturers, network technicians, web developers, games programmers and database developers, whilst others now run their own businesses. During the course you will have the chance to enhance your learning by hearing from guest speakers about their experiences of working in the industry - past speakers have included representatives from IBM and Void Games. You will also get the chance to visit the British Computer Museum at Bletchley Park and Alton Towers or Drayton Manor.

Delivery

Location: Wellington Road Campus
Start Date: 02/09/2024
Day:
Time:
Course Fee:

Course Code: Q2889
Study Mode: Full-time

Apply online: **www.wolvcoll.ac.uk/apply**