Computing, Digital and IT

Computing: Networking and Cyber Security Level 3 T Level

In Brief

Start Date / Duration

This course starts in September 2024 and runs for two years.

Entry Requirements

- Five GCSEs at grade 4 or above including English and Maths
- You may also require a DBS

You will achieve

Level 3 Digital Support Services (Networking) T Level.

Course Overview

The course is structured to provide a comprehensive understanding of cyber security and network architecture, essential for any aspiring network architect. You'll gain both theoretical knowledge and practical skills through hands-on lessons and industry placement. Topics you will cover include:

- Digital Infrastructure
- Cyber Security
- Network Architecture
- Ethical Hacking

Course Content

The core content you will study in year one is assessed through two external exams and an employer set project.

Paper 1 is an externally set and marked exam and will cover:

- Business context including business environment, digital value to business, technical change management and risks in a business context.
- Culture including moral and ethical issues.
- Data including data and information in organisations, data formats, data systems and data management.

- Digital analysis including computational thinking and use of algorithms. Digital environments including physical environments, networks, virtual environments, cloud environments and resilience of environments.
- Diversity and inclusion including digital inclusion and impact of non-inclusive digital practices.
- Learning including emerging trends and technologies.
- Legislation including relevant legislation, guidelines and code of conduct.
- Planning including project planning, life cycle management and quality management.
- Security including security risks and threat mitigation.
- Testing including root cause analysis and testing methods.
- Tools including presentation tools, project management methodologies, evaluation tools and collaborative communication tools.

Paper 2 is also an externally set and marked exam and will cover:

- Careers within the digital support services sector.
- Communication in digital support services including communication formats and interactions between digital support services and clients/colleagues.
- Fault analysis and problem resolution including fault analysis tools, frameworks for problem management, root cause analysis and incident management.

How will I be assessed?

In year 1 you will be assessed by two paper based exams and an employer set project.
In year 2 you will complete an occupational specialist project set by industry partners.
In addition to the above, you must complete a 315 hour industry placement relating to your subject.

What Equipment Will I Need?

Please bring a folder, paper, pens and pencil. While a personal laptops is not required, it is beneficial.

Where will I study?

SciTech Digital Innovation Centre
Falcon Street
Barnsley
S70 2EY

What can I do next?

You can go on to study a relevant university course or apprenticeship or go into employment in a digital support role. Due to the wide variety of skills you will acquire on the course, you could study or work in networking, software development, games design, computer science, big data analytics, cyber security, social media or business.

See what careers are available in the Computing [https://www.barnsley.ac.uk/app/uploads/2023/10/Computing-careers-2023-24.pdf] and Games [https://www.barnsley.ac.uk/app/uploads/2023/10/Games-Design-careers-2023-24.pdf] sectors. Use our online careers tool, Career Coach [https://barnsley.lightcastcc.com/?radius=&region=Barnsley] , to

find out what your next steps could be.

How much does the course cost?

Full-time students aged 16-18 do not have to pay tuition fees.

16 – 18 year olds

Full-time Barnsley College students aged 16-18 years old do not have to pay tuition fees.

Financial support

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on 01226 216 267.

Extra information

Contact the Information Unit

For further information please contact our friendly Information Team on +44 (0)1226 216 123 or email info@barnsley.ac.uk [mailto:info@barnsley.ac.uk]

Want to join Barnsley Sports Academy and Honeywell Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [https://www.barnsley.ac.uk/barnsley-sports-academy/] .

Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Call 01226 216 769 for further information.

English and Maths

Having good English and Maths qualifications are important for most careers and we want to give you the help you need to succeed.

If you are aged 16 – 19 and don't hold a grade C/4 or above in GCSE English and Maths, you will automatically be included in your study programme. If you want to work towards achieving a higher grade in English and Maths, we can help you do that too and we offer Level 3 Mathematical Studies (Core Maths) which can be added to your study programme.

If you're aged 19 or above and don't hold a a grade C/4 or above in GCSE English and Maths we can help. We offer FREE English and Maths qualifications that can be studied on a part-time basis, subject

to eligibility.

If you need any further information, please contact our Information Team by calling 01226 216 123 or emailing info@barnsley.ac.uk [mailto:info@barnsley.ac.uk]

Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

Last updated: 15th October 2024

Want to apply?

Visit **https://www.barnsley.ac.uk/apply** to get started
Call us on **01226 216 123**