

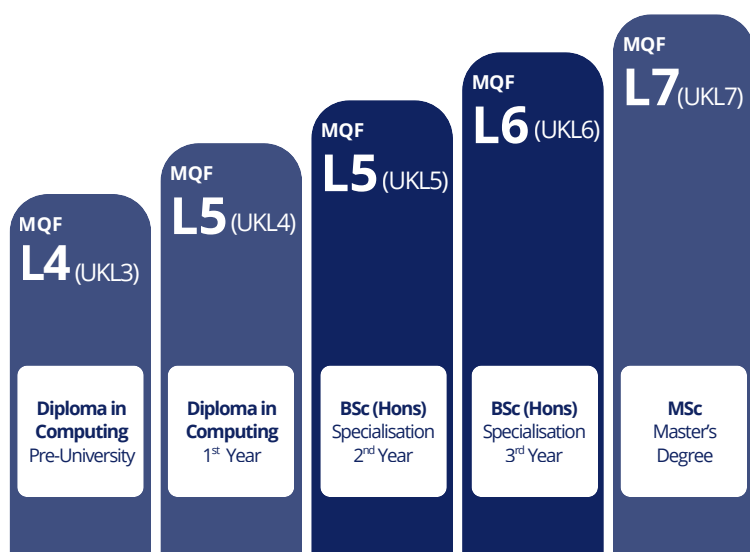
# BSc (Hons) Cybersecurity

Year 2 & 3 of the Degree

This programme aims to give students a fundamental understanding of how to protect organisations, networks, IT systems and individuals against cyber attacks and cyber threats. This course provides a comprehensive understanding of cyber threats, criminal cyber activity, and information risk management. Students learn practical control measures and secure system design principles that help organizations reduce risk and remain resilient against cyber attacks.

The course also includes aspects of Cryptography and Forensic Computing, and students will have the opportunity to engage with the latest software and forensic approaches.

Gain an understanding of cybersecurity architecture and operations by making use of specialist tools and equipment to develop your knowledge of computer networks and gain technical understanding of how to protect computer systems and networks. Students will gain experience within ethical hacking and in the final year, further develop and apply their knowledge in different applications and technologies, techniques, tools and methods in relation to cybersecurity.



## BSc (Hons) Cybersecurity

UK L5 & 6 - MQF L5 & 6

### Credits

240 CATS - 120 ECTS per level

### Awarding Body

University of Wolverhampton



### Study Mode & Duration

Full-Time: One academic year per level

Part-Time: Two academic years per level

### Assessments

Examinations and coursework assignments

### Entry Requirements

Level 4 Computing Award such as:

- Higher National Certificate Computing
- NCC Diploma in Computing

AND English Language Qualification

Relevant work experience is considered





## Second Year

### **Collaborative Development**

Work in a development team to build an artefact, collaborating with students across disciplines. Learn about team roles, documentation, project management, and secure development practices in a real-world, multi-programme environment.

### **Data Mining**

Explore the data mining process using real-world datasets. Learn techniques for processing and analysing diverse data types, uncovering patterns and insights using modern technologies.

### **Cybersecurity Architecture and Operations**

Learn to design, implement, and manage secure IT systems. Explore security principles, identity and access management, network security, and operational tools. Develop skills to assess vulnerabilities, create robust solutions, and maintain effective security operations.

### **Computer Networking**

Gain practical experience in modern networking principles, from local systems to the internet. Configure real-world equipment, switches and routers and learn how networked environments operate.

### **Ethical Hacking**

Develop hands-on skills in ethical hacking, penetration testing, and vulnerability assessment. Work in a controlled environment to identify threats, understand risks, and apply mitigation techniques.

### **Network Security**

Understand network security concepts, techniques, and applications. Learn to identify, evaluate, and mitigate threats. Gain skills to design effective security strategies for modern infrastructures.

## Third Year

### **Digital Forensics**

Learn investigation techniques to collect, analyse, and present digital evidence. Follow industry best practices for handling and interpreting data from electronic devices. Gain practical experience with tools used to detect and document cybercrime.

### **Risk and Cybersecurity Management**

Analyse threats, vulnerabilities, and risks to IT systems. Learn to select and apply countermeasures to protect data confidentiality, integrity, and availability. Use tools to assess risks and plan responses to potential security incidents.

### **Advanced Networks**

Explore advanced networking concepts, trends, and management techniques. Gain experience using commercial network design and simulation software to plan, analyse, and optimise modern network infrastructures.

### **Cyber Threat Intelligence**

Study theory and practice in Cyber Threat Intelligence. Learn to assess risks, develop actionable intelligence, and use data-driven methods to predict threats. Understand related tools, tactics, and the legal and ethical aspects of CTI.

### **Project and Professionalism**

Develop professional skills and ethical awareness aligned with industry standards. Propose and deliver your final year project with support from a dedicated mentor. Build independent research, planning, and development skills through continuous feedback and assessment.

