



Apply to start in Köln/Düren Germany

# Bachelor of Science (Hons) Cyber and Computer Security



## What is Cyber and Computer Security BSc (Hons)?

Work on live business cases to defend against cyber security risks. You'll study the cyber environments of banks, high-security digital environments, ecommerce and social media platforms, graduating well-equipped to protect cyber environments across business sectors.

Our Cyber and Computing Security degree focuses on protecting against cyber-crime before it happens. You'll develop specialisms through module choices to match your career goals. Optional subjects include data analytics, information security and digital crime scene investigation. You'll also examine 'hot' cybercrime topics. These include the latest security crimes in the news, as well as big data and Cloud systems which have both significantly increased commercial security risks.

You'll learn to identify security breaches and implement solutions using the latest industry tools and techniques. Through hands-on experience of analysing secure networks and websites, you'll develop skills around penetration testing, malware identification and ethical hacking. From network design (the physical securing of network components) and operating systems security with a focus on Windows, MAC OS and Linux, to information security (keeping cyber information secure in a business environment), you'll graduate well prepared for your next step.

## Study style

The majority of your learning will be practical, using industry-standard tools, techniques and practices. Alongside lectures, you'll undertake group work and individual projects. There are no exams on this course – you'll be assessed through individual or group-based coursework.

You'll learn in our new purpose-built School of Computing and Technology. This includes a dedicated cyber security lab where you can practice your skills in a

digitally protected environment with an isolated network, purpose-built break-out areas for workshop sessions, games consoles and screens in social areas, and the latest computing technology and software. There's a strong sense of community, with staff and students sharing both work and relaxation space.

## Entry Requirements

### GERMANY:

Zeugnis der Allgemeinen Hochschulreife (Abitur) with a grade of 2 out of 6 or a Gut. English Language requirement: Abitur English taken as Hauptfach/Leistungskurs with a minimum grade of 10 can be accepted.

### INDIA:

Successful completion of Higher Secondary Certificate/Indian School Certificate/Standard XII with a minimum of 65% from CISCE and CBSE boards. Completion of a recognised foundation course. Please note that some courses may require higher entry requirements. Applicants are advised to check the course page, and/or conditions stated in the offer letter. More information: <https://www.glos.ac.uk/international/in-your-country/india/>

### CHINA:

Senior Secondary School Graduation Certificate (高中毕业证书) with the Senior Secondary Academic Proficiency Test (普通高中学业水平考试 – Putong Gaozhong Xueye Shuiping Kaoshi) / Huikao (会考) with a minimum grade of 70% (B) AND a recognised Foundation course certificate with a successful pass grade.

– Senior Secondary School Graduation Certificate (高中毕业证书) with the Senior Secondary Academic Proficiency Test (普通高中学业水平考试 – Putong Gaozhong Xueye Shuiping Kaoshi) / Huikao (会考) with a minimum grade of 80% (A).  
– Senior Secondary School Graduation Certificate (高中毕业证书) AND the National College Entrance Examination (NCEE) (普通高等学校招生全国统一考试) / Gaokao (高考) with a minimum score in a relevant stream of: 425 of 750 (majority of China); 375 of 660 (Shanghai); 275 of 480 (Jiangsu); 525 of 900 (Hainan). The science or the arts stream is acceptable for entry to Business and Management courses.

- One year (or more) of university study in China with a minimum grade of 70% overall.

### Undergraduate (Advanced Entry to Bachelor Degree):

#### Level 5:

- Two-three year Diploma (Dazhuan / Zhuanke) in a related subject area.
- Successful completion of a minimum 2 years' university study in a related subject area.

**NB:** Detailed module information (in English) with learning outcomes and lecture schedules is required for consideration.

#### Level 6:

- Three year Diploma (Dazhuan/ Zhuanke) in a related subject area.
- Successful completion of three years' university study in a related subject area.
- HND / SQA Advanced Diploma in a related subject area.

**NB:** Detailed module information (in English) with learning outcomes and lecture schedules is required for consideration for advanced standing into Level 6.

More information: <https://www.glos.ac.uk/international/in-your-country/china/>

## Language Requirements

IELTS 6.0 overall with no less than 5.5 in any band

More information: <https://www.glos.ac.uk/information/knowledge-base/english-language-entry-requirements/>

## Fees

7,500€/a. + examination fee 500€

Cost of living: approx. 500€/month

Non-EU Applicants: refer to agent for fees

## Study Modules

### Level 4 (Undergraduate year 1)

#### All students must complete these modules:

- ▶ Introduction to Web Development (CT4009)
- ▶ Computers and Security (CT4010)
- ▶ Introduction to Programming Fundamentals (CT4021)
- ▶ Principles of Cyber Forensics (CT4022)
- ▶ Technical & Applied Computing (CT3005)
- ▶ Creative Computing (CT3006)
- ▶ Engineering Technologies (CT3007)

### Level 5 (Undergraduate year 2)

#### All students must complete these modules:

- ▶ Operating Systems (CT5043)
- ▶ Cryptography & Security (CT5046)
- ▶ Network Design & Configuration (CT5047)
- ▶ Ethical Hacking & Security (CT5049)

#### You can choose from the following modules:

- ▶ Data Analytics (CT5018)
- ▶ Professional Issues (CT5023)
- ▶ Managing the Security of Information (CT5040)
- ▶ Ethical Hacking & Security (CT5049)
- ▶ Cyber Human Factors (CT5056)

### Level 6 (Undergraduate final year)

#### All students must complete these modules:

- ▶ Computing Technology Placement (CT5004)
- ▶ Advanced Networking & Security (CT6034)
- ▶ Dissertation Research Methods (CT6038)
- ▶ Dissertation (CT6039)

#### You can choose from the following modules:

- ▶ Advanced Topics in Technology and Innovation (CT6027)
- ▶ Penetration Testing Certification (CT6030)
- ▶ Cyber Security Management (CT6033)
- ▶ Secure Coding (CT6042)
- ▶ Malware Analysis (CT6044)

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