

Cyber Security

Give your career in **Cyber Security** a boost. The Advanced Program Applied Computer Science with a major in Cyber Security at Howest, **Bruges, Belgium** offers you the ideal education.

Howest offers you a wide range of interesting topics. Did you ever want to understand how a hacker works and to counter their attacks through **reverse malware engineering**? Are you interested in becoming an **ethical hacker** and help private and public sector organizations find their weak spots through **penetration testing (system, web and network)**? Do you want to help fight **Cybercrime** and find the bad guys by conducting a **forensic analysis**? Or is your life's goal to strengthen security in the industry by learning about **Industrial Control Systems Security (OT)**? Or do you want to understand **cryptography** and how it can be used to protect or attack (ransomware)? **Data Privacy** and **GDPR** provide you the essential knowledge on your way to become a **Data Protection Officer (DPO)**. You will acquire thorough expertise in **Information Security Management** and **threat modelling and intelligence**. All of this and more is offered in this program.

As a pioneer in offering education for ground-breaking new technologies Howest was one of the first to respond to the lack of industry-ready, practice-oriented Cyber Security Professionals by offering this advanced program. Innovative subjects like **Cyber Warfare** and security in **5G, Blockchain** and **AI** are included.

To be eligible for this Advanced Program a Bachelor or Master in Computer Sciences is a must.

Alumna Annika ten Velden



TESTIMONIAL

After my Master in Criminology, I was looking for a dedicated education in IT-security and forensic investigation. The bachelor program Cyber Security Professional corresponded perfectly with my needs.

As my background was in social sciences rather than in technical sciences, I did expect a challenge. As Howest focuses on the practical rather than the theoretical and offers extra support where necessary, I achieved my degree without a problem.

Because of the profound knowledge acquired in IT-security – from pentesting to forensic analysis – I received many job offers. My work at NVISO for the last five years has focused on incident response and forensic investigations. I still have regular contact with Howest and can tell from its trainees that the education continuously evolves and is adapted to the needs of the employer community.

Program

	SEMESTER 1	SEMESTER 2
ICT INFRA-STRUCTURE	Cyber Security Fundamentals Systems	Web, Mobile & Security # Server-side Scripting # Responsive Design # Web Pentesting # Mobile web apps and security
SOFTWARE DEVELOPMENT	Databases Technology and Security	Cybercrime
WEB & MOBILE	Windows and Linux Server Security	Network and CCNA Security
ICT MANAGEMENT	Cryptography # Blockchain # Ransomware # Quantum Cryptography	Web Security & Honeypot
CYBERCRIME & SECURITY	Secure Development	
PROJECTS, INTERNSHIP & THESIS	Security Management Threat and Risk Assessment # ISO 2700x # NIST	Emergent Security Techniques # 5G # Cyber Warfare # Industrial Security # Machine Learning
	Data Privacy and IT Law # GDPR # NIS	Security Project(s)
	Forensic Analysis	
	Network and System Pentesting # Ethical Hacker	Seminars, Study Visits and Challenges
	Cyber Security Fundamentals	Static Code Analysis

Research

Howest has built a solid reputation in practice-oriented scientific research, services and continuing education, always with a focus on the professional field both national and international. This translates into national, European and international projects in applied research, always at the request of and for private and public organizations from home and abroad.

Bruges, the perfect city for students



Did you know that the historic city center is a prominent UNESCO World Heritage Site? You share the city with tourists from all over the world and that mix works perfectly.

Bruges “the fair city” offers a wide plethora of pastimes. Relax on a terrace, exercise in the green spaces, see the canals or enjoy one of the many restaurants or bars with your fellow students. An inspiring city for students!

Get in touch

Research Manager / Manager major Cyber Security

Kurt Callewaert - kurt.callewaert@howest.be

Lecturer

Kurt Schoenmaekers - kurt.schoenmaekers@howest.be