

A person wearing a dark hoodie is centered in the image, their face obscured by a digital grid of binary code (0s and 1s) in shades of blue and green. The background is a dark blue gradient with a light blue triangle in the top-left corner.

**HOWEST UNIVERSITY  
OF APPLIED SCIENCES**

**CYBER SECURITY PROFESSIONAL**

**ANTICIPATING THE FUTURE**

**howest**  
university of applied sciences



## INDUSTRY-DRIVEN EDUCATION AND FUTURE-PROOF SKILLS

[Howest University of Applied Sciences](#) is known for its innovative, interdisciplinary approach to education and research as well as its close collaborations with industry, businesses, and the social profit sector. Howest is a member of Ghent University Association and is fully accredited by NVAO, the Dutch-Flemish Accreditation Organisation. [Our campuses](#) are located in the historical Belgian cities of [Bruges](#) and [Kortrijk](#).

We offer [25 bachelor's](#), [13 associate degrees](#) and [many postgraduate certificate programmes](#), all with a strong practical focus, in Business & Management, Industrial Sciences & Technology, Digital Design, Architecture, Healthcare, Education, and Social Sciences. Field-driven assignments, on-the-job training and internships are the key components of each programme. That is how we meet the changing needs of today's society and equip our students with future-proof skills.

## RENOWNED TECH PROGRAMMES

Howest is renowned for its tech and design programmes, such as [Cyber Security](#), [Digital Design and Development](#), and [Digital Arts and Entertainment](#). Howest's DAE programme took first place in The Rookies Awards for Best Game Design and Development School in the world in 2017, 2018 and 2021. DAE also won the international Grads in Games award for the second time in 2021. This award honours universities and colleges that offer the best quality of education to optimally prepare their students for a career in the games industry.

## BACHELOR OF APPLIED COMPUTER SCIENCE MAJOR CYBER SECURITY PROFESSIONAL

As a pioneer in offering training 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 bachelor's programme. Innovative subjects like **Cyber Warfare** and security in **5G**, **Blockchain**, and **AI** are included.

Do you want to understand how a hacker works and how to counter their attacks through **reverse malware engineering**? Are you interested in becoming an **ethical hacker** and helping 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**? 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)? All of this and more is covered in this program. **Data Privacy** and **GDPR** provide you the essential knowledge on your way to becoming a **Data Protection Officer (DPO)**. You will also acquire expertise in **Information Security Management** and **threat modelling and intelligence**.

Of course, you will also learn the basics of hardware and desktop operating systems, networks and software development including **Secure Development** and much more. This implies that we do not require prior knowledge or experience with IT (security) though an affinity for working with computers is, of course, a benefit.



## TESTIMONIAL ANNIKA TEN VELDEN DIGITAL FORENSICS CONSULTANT, NVISO

*"After my Master in Criminology, I was looking for a dedicated training in IT-security and forensic investigation. The bachelor's programme for 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. Howest, however, focuses more on the practical rather than the theoretical and offers extra support where necessary. So, I achieved degree success 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 training continuously evolves and adapts to the needs of employers."*

# STUDY PROGRAMME

2022 - 2023

	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6
ICT INFRA-STRUCTURE	Hardware and Operating Systems	Communication Networks	Operating Systems Concepts	Server System Management #Windows Server Lab #Linux Server Lab	Datacenter Technology and Security	Internship
INFORMATION MANAGEMENT	Databases	Application Prototyping	Information Modeling & Exchange	.NET Technology Essentials	Windows and Linux Server Security	
SOFTWARE DEVELOPMENT	Problem Solving #Cryptography Fundamentals	Object Oriented Programming	Webpentesting Advanced	Network and System Pentesting #Ethical Hacker	Network Infrastructure Security	
WEB & MOBILE	Programming Fundamentals #Javascript	Web Development Essentials	Object Oriented Architectures and Development #n-tier Architectures #Secure Development	Forensic Analysis	Security Management Threat and Risk Assessment #ISO 2700x #NIST	
ICT MANAGEMENT	Web Development #HTML #CSS #Javascript		Web Pentesting Fundamentals	Data Analytics	Practical Reverse Engineering and Malware Analysis #Advanced Persistent Threat (APT)	
AI	E-business	Project Communication	Web Technology, Security and Honeypot	Cybercrime	Emergent Security Techniques #5G #Cyber Warfare #Industrial Security #Machine Learning	
IT SOLUTIONS			Programming Project #Project Management	Mobile Security #Multi-Factor Auth #Biometric Auth #Password Managers	IT Governance #IT Governance #Cobit 2019	
CYBERCRIME & SECURITY	Cyber Security Fundamentals	Analysis and Development Project #Analysis and Business Case #IT Entrepreneurship #Technical Writing	International Project	Data Privacy and IT Law #GDPR #NIS	Security Project	
PROJECTS, INTERNSHIP & THESIS						

Programme subject to change



## OUR RESEARCH: INNOVATIVE AND STATE-OF-THE-ART!

Howest has built a solid reputation for its application-oriented scientific research, services, and training, along with its partnerships with universities and work-field organisations in Belgium, Europe, and all over the world. Our research projects are demand-driven and often carried out in close collaboration with companies. They are organised by our topnotch research teams.

## BRUGES

Bruges is an inspiring city that will capture your heart. Retaining the mysteries of the Middle Ages and unashamedly exuberant, Bruges has been an international metropolis for centuries. This Unesco World Heritage City became especially popular because of the movie "In Bruges". Bruges is easily accessible and lies within a short train or car ride from many major cities.



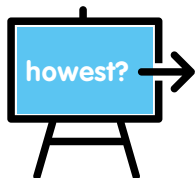
## GET IN TOUCH

International Admissions:  
Mr. Thobias EXPEEL  
[admissions@howest.be](mailto:admissions@howest.be)

Programme Information:  
Lecturer, Mr. Kurt SCHOENMAEKERS  
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# HOWEST

## IN A NUTSHELL



- 43 postgraduate certificates
- 25 bachelor's programmes
- 21 English-taught semesters
- 13 associate degrees
- 1 European master's

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800 employees



....



member of  
Ghent University  
Association



multiple student  
startups

....

Accredited  
by **NVAO**

....

#howestvibe

....



international  
students  
coming from **84**  
countries

±8.900  
students



....

1.907  
degrees a year



....

180

international academic  
partnerships



....



+ €6 million  
a year on research  
and innovation