

**Stefan Vilsmeier**  
**Founder and CEO of Brainlab AG**

**//** *As a forward-looking and innovative company, we offer students both, Master's programmes Cyber Security and Digital Factory the opportunity to link their acquired theoretical knowledge with our practical company content. We benefit greatly from the input and fresh ideas of the HDBW students. At the same time, we see this as an investment in the long-term bond between us and the skilled workers we need in our company."*



**Sebastian Stecher**  
**Graduate Cyber Security (M.Sc.)**

**//** *"The focus areas in the Cyber Security program at HDBW are well-chosen, relevant, and practical. It enabled me to quickly enter the professional field by providing a broad foundation of knowledge. The approach of teaching theoretical concepts through practical examples proved especially valuable. This way, you get to know specific areas of application during your studies, making it easy to transfer this knowledge later on."*



**FAQ by  
international  
students**



# ADMISSION REQUIREMENTS

## Completed Bachelor's degree in

- Business Informatics / Computer Science
- Industrial Engineering
- Electrical Engineering / Information Technology or comparable subjects
- Other Bachelor's degrees on request

## Language level

B2 English proficiency level – proof via:

- A certificate from a recognised language test (TOEFL, IELTS or TOEIC), or
- An official confirmation from your previous university that your Bachelor's programme was taught in English

## ECTS

210 ECTS or 180 ECTS plus Pre-Master

## Pre-Master

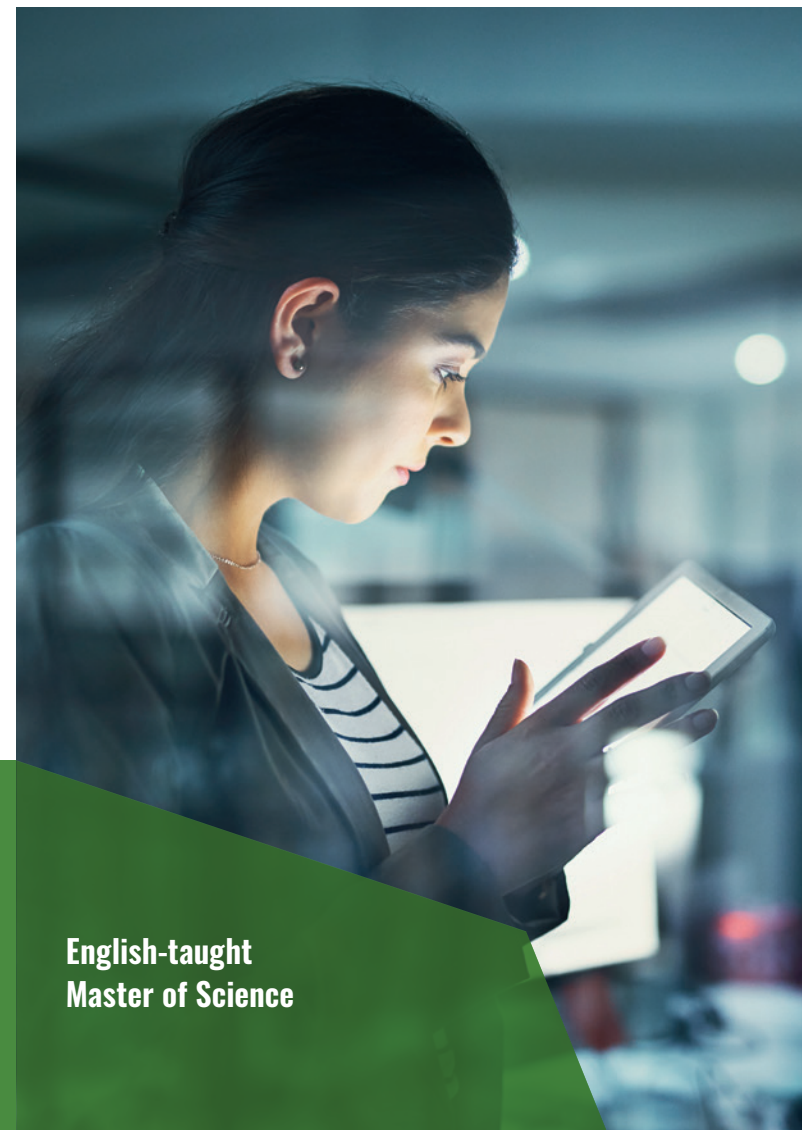
1 semester prep course for programming, academic skills and German language & culture – compulsory if you have a non-EU Bachelor's degree

## Degree

Master of Science (M.Sc.)

## Master's degree









# CYBER SECURITY



**English-taught  
Master of Science**

## Want to know more? Get in touch with us!



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## PERSONALIZED AND BUSINESS-ORIENTED

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# SAFEGUARD THE DIGITAL FUTURE!

Dependence on multiple, complex, interacting digital systems is growing day-by-day. Vehicles, infrastructures, industrial control systems, financial flows and medical devices are now part of the cyber domain and therefore exposed to a variety of threats. Adding AI into the mix results in completely new, disruptive developments that present companies with major challenges.

After earning your Master of Science in Cyber Security, you will be equipped to protect systems and information in a responsible position, applying both technical and organizational concepts effectively.

**Career opportunities after graduation:**

- Cyber Security Analyst
- Information Security Manager
- Cyber Security Engineer
- IT Infrastructure Security Consultant
- Security Compliance Analyst

**FULL-TIME MASTER OF SCIENCE IN 3 SEMESTERS**

1st SEMESTER					Choose 2 Electives   2.5 ECTS each
Introduction to Cyber Security 5 ECTS	Cryptography 5 ECTS	Computer Systems and Networks 5 ECTS	System Auditing and Hardening 5 ECTS	Application Development and Security Lifecycle 5 ECTS	Human Factors in Cyber Security Technology Ethics   Introduction to Docker   Cyber Project   Cloud Hacking Cyber Threat Intelligence
2nd SEMESTER			Focus module: Technology   15 ECTS	Focus Module: Management   15 ECTS	
Legal Aspects & Privacy 5 ECTS	Seminar: Current Topics in Cyber Security 5 ECTS	Requirements Engineering and Threat Modelling 5 ECTS	Intrusion Detection and Digital Forensics System- and Network Security AI Methods		Security Maturity Security Governance and Compliance Security Management
3rd SEMESTER					
Incident Management and Disaster Recovery 5 ECTS	Security Aspects in Application Areas (Industrial Internet, IoT, Mobile und Cloud, etc.) 5 ECTS		Master's Thesis and Final Examination 20 ECTS		

**PART-TIME MASTER OF SCIENCE IN 5 SEMESTERS**

1st SEMESTER			
Introduction to Cyber Security 5 ETCS	Cryptography 5 ETCS	System Auditing and Hardening 5 ETCS	Computer Systems and Networks 5 ECTS
2nd SEMESTER		Focus module: Technology I   15 ETCS	Focus Module: Management I   15 ETCS
Legal Aspects & Privacy 5 ETCS		Intrusion Detection and Digital Forensics System- and Network Security AI Methods	Security Maturity Security Governance and Compliance Security Management
3rd SEMESTER			Choose 2 Electives   2.5 ECTS each
Application Development and Security Lifecycle 5 ECTS	Incident Management and Disaster Recovery 5 ETCS	Security Aspects in Application Areas (Industrial Internet,IoT, Mobile und Cloud, etc.) 5 ETCS	Human Factors in Cyber Security Technology Ethics   Introduction to Docker   Cyber Project   Cloud Hacking Cyber Threat Intelligence
4th SEMESTER			
Requirements Engineering and Threat Modelling 5 ECTS		Seminar: Current Topics in Cyber Security 5 ECTS	
5th SEMESTER			
Master's Thesis and Final Examination 20 ECTS			