

# 4TU Cyber Security Master Specialization – Kick off

Andreas Peter, Twente & EIT Digital

Christian Doerr, Delft

<https://4tu.nl/cybsec>

# Agenda

- Introduction to the 4TU.CybSec degree program
- Presentation of various courses
- Questions & Answers
- Cake, coffee, and tea + discussions

# Characteristics of the program

- Risk management
- Technology (2/3) in context (1/3)
- 2 year full time program, start 2x per year
- Tele-lecturing + some travel
- Core courses
- Introductory and advanced electives
- Final year project
- Capstone Cyber Security
- Certificate
- Agreed Individual Study Plan (ISP)

# Course portfolio

## Core courses

1. CDA: Cyber Data Analytics
2. CRM: Cyber Risk Mgmt.
3. Crp: Security and Crypto.
4. NeS/InS: Network security
5. SoS/PAS: Software Security

## Electives

6. ANS: Adv. Netw. Sec
7. ASA: Applied Sec. Analysis
8. BCE/BCT: Block chain
9. Bio: Biometrics
10. Cap: Capstone cyber sec.
11. CCS: Cyber Crime Science

12. CoE: Computer Ethics
13. CSM: Cyber Security Mgmt.
14. Ela: E-Law
15. EoS: Economics of Security
16. PET: Privacy Enh. Tech.
17. Q101: Fund. quant. inf.
18. Q201: Quant. Comm&crypto.
19. SDM: Secure Data Mgmt.
20. SeV: Security Verification
21. SSI: Security Services for IoT
22. STR: SW test. & Rev. Eng.
23. SyS: System Security

# Focus

- Network : Ins/NeS, ANS, SSI
- Software : SoS/PAS, SeV, STR
- Data : Bio, Crp, CDA, PET, SDM
- System : ASA, BCE/BCT, SyS

# Advisory board

The ideal graduate:

- is an über technologist
- speaks a second language
- is able to translate strategic questions into technical questions and vice versa
- enjoys solving technical problems and is capable of abstract thought.

# Alumni work as

- Computer and network security specialist
- Chief Technical Officer
- Developer
- Digital expert police
- Entrepreneur
- Ethical hacker
- Information security advisor
- Lead engineer
- Lecturer
- Management consultant
- PhD student
- Privacy advisor
- Researcher
- Security & privacy consultant
- Security analyst
- Security consultant
- Senior analyst and test consultant
- System Architect
- Software engineer
- Technical consultant

# Practical information

- Lectures and exams at your own university
- Labs may require travel
- You must be enrolled at both universities
- Not all lectures are recorded
- Not all vacations are synchronized
- FAQ: <https://www.4tu.nl/cybsec/en/faq/>



# What to do now?

- Register at the other university
- Make a draft individual study plan (ISP), see <http://www.4tu.nl/cybsec/en/course-program/study-plans/>
- Pay attention to the pre-requisites
- Agree your ISP with your program mentor
- Sign up for your courses at both universities

- Follow us on:



# Twente Hacking Squad (THS)

(extra-curricular activity)



**Hands-on Hack1ng**

Software Explo1tation

D1gital Incident Investigation

Code Break1ng

&

**Hacking Competitions**



<http://scs.ewi.utwente.nl/home/TwenteHackingSquad/>

# Twente Hacking Squad (THS)

(extra-curricular activity)



## THS students will represent the Netherlands at European Cyber Security Challenge in Bucharest!

**Sep 7, 2019:** THS students win the national "Challenge the Cyber" CTF-contest (>100 participants)

