

# Kick-off Master Specialisation Cyber Security

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



# Agenda

- Introduction to the 4TU.CybSec degree course
- Presentation of the various courses
- Presentation of alumni-mentor program

## Break

- Presentation of the various courses (continued)
- Mini-lecture on risk management
- Questions & Answers
- Tele-lecturing training

# 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 for labs
- 6 core courses, off-site integration week, many electives, final year project.
- Certificate if  $\geq 80$  EC Cyber Security
- Alumni-mentor program
- Agreed study plan

# Courses (mostly 5 EC)

## Core courses

1. CCS: Cyber Crime Science
2. CDA: Cyber Data Analytics
3. CRM: Cyber Risk Mgmt.
4. Crp: Security and Crypto.
5. Integration week (1.5 EC)
6. NeS: Network security
7. SoS/LBS: Software Security

## Local elective (TUD)

8. ASA: Applied Security Analysis

## Joint electives

9. Bio: Biometrics
10. CSM: Cyber Security Mgmt.
11. CoE: Computer Ethics
12. Ela: E-Law
13. EoS: Economics of Security
14. PET: Privacy Enh. Tech.
15. Q101: Fund. quant. inf.(4EC)
16. Q201: Quant. Comm&crypto.
17. SDM: Secure Data Mgmt.
18. STR: SW test. & Rev. Eng.
19. SeV: Security Verification

(Blue = socio-tech.)

# 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 usually require travel
- You must be enrolled at both Universities
- Not all lectures are recorded
- Not all vacations are synchronised
- FAQ: <https://www.4tu.nl/cybsec/en/faq/>
- Further questions:
  - Twente: Pieter Hartel (Coord) & Janina Roppelt (SA)
  - Delft: Dr Christian Doerr (Coord) & Silke Kamoen (SA)

# 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/>
- Agree your ISP with your program mentor
- Sign up for your courses at both universities
- Sign up with an alumnus-mentor