

Kick-off Master Specialisation Cyber Security

Pieter Hartel, UT & TUD

Andreas Peter UT, Christian Doerr, TUD

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



Agenda

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

Break

- Presentation of the various courses (continued)
- Questions & Answers

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 ≥ 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) & Sille 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

