4TU Cyber Security Master Specialization – Kick off

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https://4tu.nl/cybsec

For EIT Digital Cybersecurity students: Florian Hahn, Twente

Agenda

- Introduction to the 4TU.CybSec degree program

- Presentation of various courses

- 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 (Corona-update: most courses offered fully online)
- 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 Mgmnt.*
3. Crp: Security and Crypto.
4. NeS/InS: Network/Internet Security
5. SoS/PAS: Software Security

Electives

6. ASA: Applied Sec. Analysis
7. BCE/BCT: Blockchain
8. Bio: Biometrics
9. *Cap: Capstone cyber sec.*
10. *CCS: Cyber Crime Science*
11. *CoE: Computer Ethics*

12. *CSM: Cyber Security Mgmnt.*
13. *Ela: E-Law*
14. *EoS: Economics of Security*
15. *GoC: Governance of Cybersecurity   *new**
16. PET: Privacy Enh. Tech.
17. Q101: Fund. quant. inf. (only lecture recordings)
18. Q201: Quant. Comm&crypto.
19. SCC: Secure Cloud Computing   *new*
20. SDM: Secure Data Mgmnt.
21. SeV: Security Verification
22. SSI: Security Services for IoT
23. STR: SW test. & Rev. Eng.
24. SyS: System Security

Focus

- Network : Crp, InS/NeS, SSI

- Software : SoS/PAS, SeV, STR

- Data : CDA, PET, SDM

- System : BCE/BCT, SCC, 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 (Corona-update: lectures online)
- Labs may require travel
- You must be enrolled at both universities
- Not all lectures are recorded (but most are)
- Corona-update (timetable doesn't show this): Twente courses start at 9:00 and 11:00, resp.; BUT Delft courses start at 8:45 and 10:45, resp.; afternoon slots always at "quarter to", so at 13:45 and 15:45, resp.
- 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:

Extra-curricular activities

Fun ahead!

Twente Hacking Squad (THS)

(extra-curricular activity)

THS students win the national "Challenge the Cyber" CTF-contest (>100 participants)!

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