2026-2027: Computer Science GENERAL

- CS CORE: Computer Ethics (5EC, Q2)
- CORE SPECIALIZATION COURSES (20 EC): 4 mandatory courses
- ADVANCED SPECIALIZATION COURSES (at least 20 EC): Choice 4 out of x
- PROFILING SPACE (+/- 0-35 EC): More ADVANCED courses, other specializations courses or courses from related MSc programmes (EE, EMSYS, BIT, ITECH, AM, ROB), Internship, Exchange. *Note. Some specializations have additional requirements, e.g. ST orientation, CYB socio-tech*
- GRADUATION (40 EC): Research Topics (10EC) (preparation) + Final project (30EC) (project)

***Page 1 of 2NOTE!* This is a simplified overview. For a more complete overview and info on additional courses/electives, EIT Digital/SPECTRO and requirements:**

Cyber Security: www.utwente.nl/en/cs/programme/specialisations/cyb
Software Technology: www.utwente.nl/en/eemcs/fmt/education/st/
Data Science & Technology: www.utwente.nl/en/cs/programme/specialisations/dst
Internet Science & Technology: www.utwente.nl/en/cs/programme/specialisations/ist
Sustainable Computing: www.utwente.nl/en/cs/programme/specialisations/susco/

Quartiles: 1 (Sep-Nov), 2 (Nov-Feb), 3 (Feb-Apr), 4 (Apr-Jul); Year = can be started anywhere during the year; Sem = runs over a semester

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SPECIALIZATION SOFTWARE TECHNOLOGY

Mandatory core (20 EC)	
System Validation	1
Design of Software Architectures	2
Software Testing and Risk Assm.	3
Software Evolution	4

Advanced (at least 4)	
ADSA-Model driven engineering	1
Modeling and Analysis of Concurrent Systems	1
Graph Algorithms and Complexity	2
Interactive Theorem Proving	2
Service-oriented Architecture with Web services	3
Quantitative evaluation of Systems	3
Software Management	4
Advanced Logic	4

Design orientation (10 EC)	
Industrial Software Engineering project	Sem 1
Research orientation (10 EC)	
Software Science (13,14,49,16) Alternate, each offered every two years	3, 4
Capita selecta ST	Year

SPECIALIZATION DATA SCIENCE AND TECHNOLOGY

Mandatory core (20 EC) DST	
Machine learning 1	1
Managing big data	2
Topics in Data Science	2, 3
Information theory and statistics	3

Advanced (at least 4)	
FAIR Data Engineering	1
Foundations of IR **or** Natural Language Processing	1
Image Processing and Computer Vision	1
Deep Learning – theory to practice	2
Architectures of IS	2
Multimodal Machine Learning	3
Probabilistic programming	3
Ontology-Driven Conceptual Modeling	4
Foundation Models	4

SPECIALIZATION INTERNET SCIENCE AND TECHNOLOGY

Mandatory core (20 EC)	
Internet of Things	1
Performance evaluation	2
Mobile and wireless networking	3
Internet security	3

Advanced (at least 4)	
Advanced Networking	1
Empirical Security Analysis and Engineering	2
Cloud Networking	2
Service-oriented Architecture with Web services	3
Pervasive Computing	3
Sustainable Wireless Networks (prev. Ad-hoc)	4
Internet Measurements	4
Distributed Systems	4
Security Services for IoT	4
Automated Vulnerability Research and Mitigation	4
Dependable Networking	Year

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SPECIALIZATION SUSTAINABLE COMPUTING

Mandatory core (20 EC)	
Building Blocks for Sustainable Computing Systems theory	sem1
Building Blocks for Sustainable Computing Systems practices	sem1
Performance Evaluation.	2
Computing & Communications Continuum	1

Advanced (at least 4)	
Internet of Things	1
Distributed Systems	4
Mobile and wireless networking	3
Sustainable Wireless Networks	4
Advanced Networking	1
Internet Measurements	4
Green Software Development	1
Advanced Computer Systems	4

SPECIALIZATION CYBER SECURITY

Mandatory core (20 EC)	
Security & cryptography	1
Software Security	2
Internet security	3
AI for Security (prev. Cyber data An.)	4

Advanced (at least 4)	
Secure Cloud Computing	1
System Validation	1
Intr. to Biometrics	2
Quant. Comp. & Post-Quant. Crypt.	2
Emp. Security Analysis & Eng.	2
Privacy Enhancing Tech. Bootcamp	2
Blockchain and distr. ledger techn	3
Security Services for IoT	4
System Security	4
Autom. Vulnerab. Research & Mitig.	4
Security Verification	Year

Socio-technical (at least 1)	
Cyber risk management	1
E-Law	4
Economics of Cyber Security	1
Security Experiments - Part I	3
Security Experiments - Part II	4

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