

Department of Computer Science Studies Administration

CAB H 36.1 Universitätstrasse 6 8092 Zurich

Master's Programme in Cyber Security Tentative Course List ETHZ

Please find information on each course in the ETH Course Catalogue: www.vvz.ethz.ch

During the course of the programme, students spend one semester at EPF Lausanne and obtain 20–35 credit points. For more details, see: https://inf.ethz.ch/studies/master-cybsec.html

CORE COURSES	3		
252-0463-00L	Security Engineering	autumn	
252-1414-00L	System Security	autumn	
263-4640-00L	Network Security	autumn	
263-4658-00L	Privacy Enhancing Technologies	autumn	
263-4660-00L	Applied Cryptography	spring	
CORE ELECTIVE	 ES		
227-0575-00L	Advanced Topics in Communication Networks	autumn	
227-0579-00L	Hardware Security	autumn	
252-0811-00L	Applied Security Laboratory (not offered in AS 24)	autumn	
252-1411-00L	Security of Wireless Networks	autumn	
263-4657-00L	Advanced Encryption Schemes (not offered in AS 24)	autumn	
263-4665-00L	Zero-Knowledge Proofs	autumn	
252-0408-00L	Cryptographic Protocols	spring	
263-4600-00L	Formal Methods for Information Security	spring	
263-4656-00L	Digital Signatures	spring	
SEMINAR			
252-4601-00L	Current Topics in Information Security	autumn	
252-2603-00L	Seminar on Systems Security	spring	
263-4651-00L	Current Topics in Cryptography	spring	



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Minor

CORE COURSES CORE ELECTIVES

Students choose **one Major** from the Master's Programme in Computer Science (Regulations 2020) and take Core Courses and Core Electives of the chosen Major:

- Data Management Systems
- Machine Intelligence
- Visual and Interactive Computing
- Theoretical Computer Science

SEMESTER PROJECT

260-0100-00L Semester Project 12

INTER FOCUS COURSES

263-0006-00L	Algorithms Lab	autumn	8
263-0009-00L	Information Security Lab	autumn	8
263-0007-00L	Advanced Systems Lab	spring	8
263-0008-00L	Computational Intelligence Lab	spring	8

FREE ELECTIVES

All Master's level courses in the area of computer science, or a closely related field, offered by ETH Zurich, EPFL and the University of Zurich may be chosen as Free Elective Courses.

SCIENCE IN PERSPECTIVE

Courses offered by D-GESS, see details in the Cyber Security Study Guide.

MASTER'S THESIS

260-0800-00L Master's Thesis 30