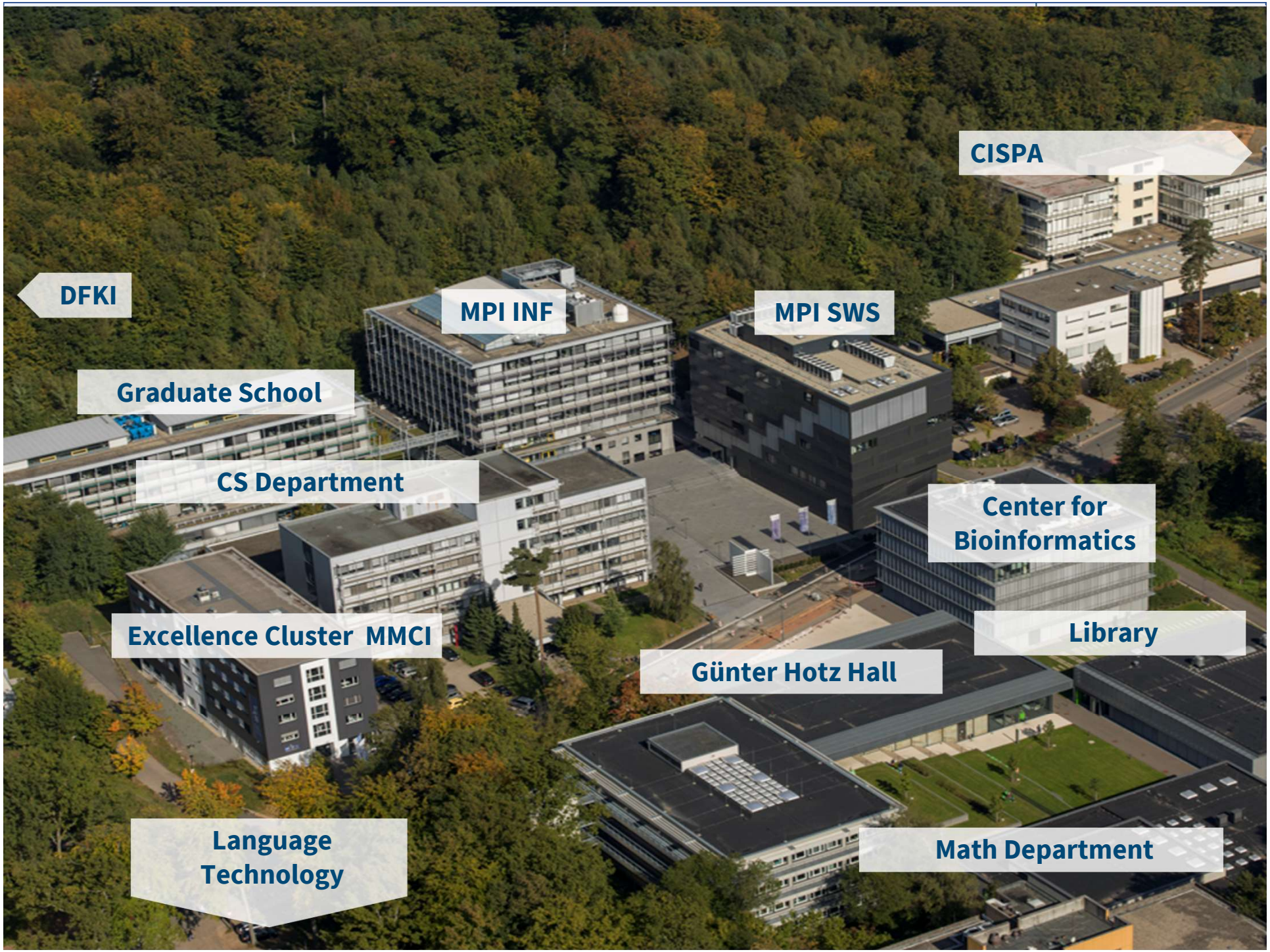
Welcome to Saarland Informatics Campus!

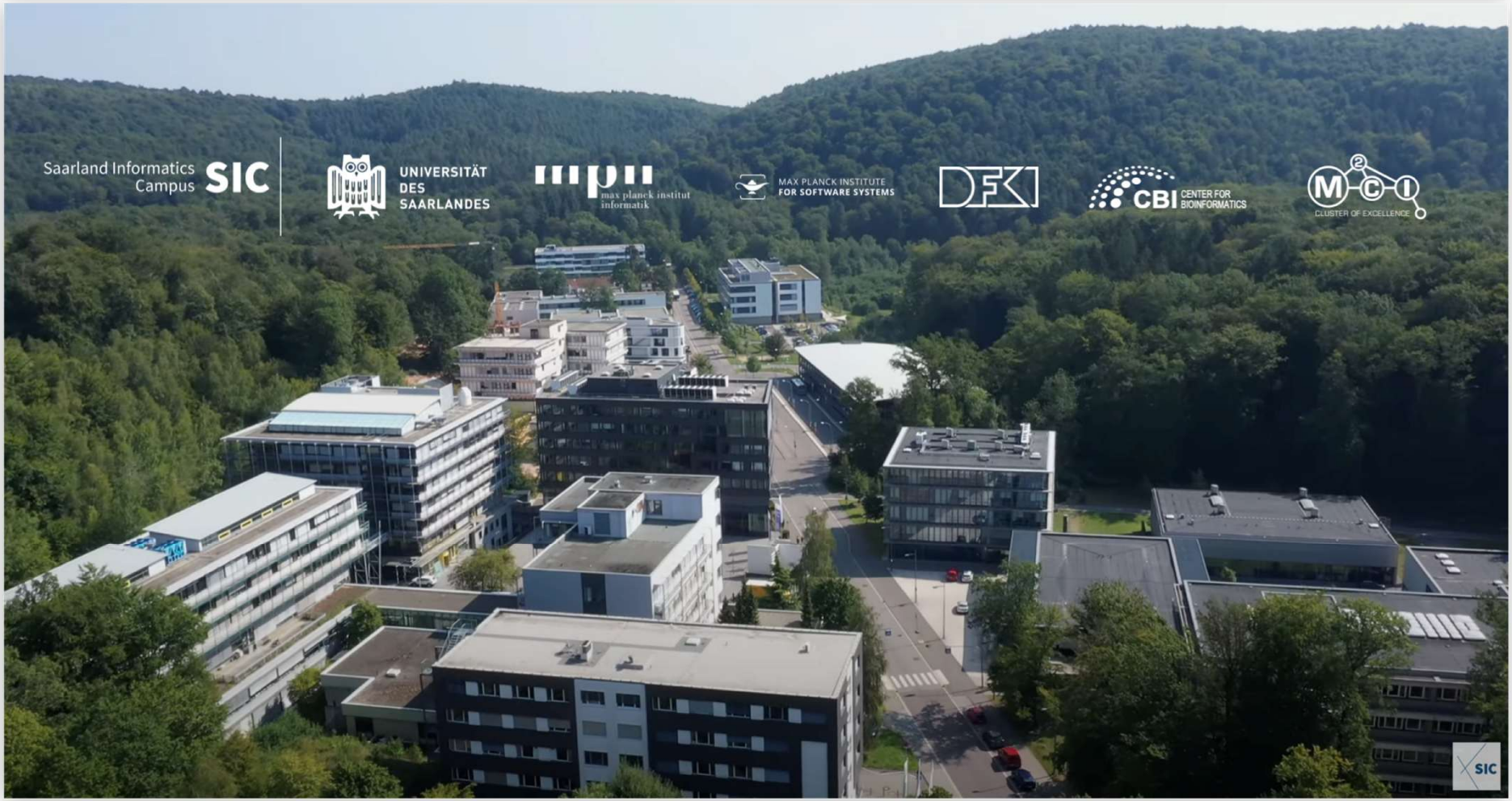
Prof. Dr. Sebastian Hack

UNIVERSITÄT DES SAARLANDES

SIC Saarland Informatics Campus


CISPA
DFKI
MPI INF
MPI SWS
Graduate School
CS Department
Center for Bioinformatics
Excellence Cluster MMCI
Library
Günter Hotz Hall
Language Technology
Math Department

Saarland Informatics Campus



At a Glance

- ~ 900 scientists at SIC
- 56 professors (29 dept)
- 31 junior research group leaders
- Currently 3 SFBs (collaborative research centers)
- 40 ERC Grants, 7 Leibniz awards, 6 Konrad Zuse Medals
- 9 ACM fellows, 2 IEEE fellows, 2 AAAI fellows
- 2.800 students in 24 programs from over 80 nations, ~ 400 PhD students

Folie 4

SG0 junior group habe ich nur diese "Quelle":
https://saarland-informatics-campus.de/forschung-research/forschungsgruppen-der-saarbruecker-informatik/
Sahra Ina Raymonde Grolier; 2023-11-15T08:50:41.240

SG1 die phd students sind teil der 900 scientists, fyi
Sahra Ina Raymonde Grolier; 2023-11-15T08:58:21.253

SG2 Und hier die Quelle für eine beliebige Aufschlüsselung der Profs:
https://docs.google.com/spreadsheets/d/1vQpGwWsjXaji_u6RidcMDBmUmUVqsHateJxZeZchAg4/edit#gid=0
Sahra Ina Raymonde Grolier; 2023-11-15T09:16:20.941

SG3 würde ich rausnehmen, hier haben wir keine aktuellen Daten.
Sahra Ina Raymonde Grolier; 2024-10-08T08:30:05.634

Your Study Documents

Where?

→ On the website of the examination office (ps-mint)

Content:

Study Programme Documents (Downloads)

- Examination regulations: german / english

Bachelor Computer Science (English)

- Subject-specific regulations: german / english
- Study regulations: german / english
- Module guide: english

General Informations

Studying and Taking Exams

- The 'failed first attempt' rule (only in Bachelor's degree programmes)
- Plagiarism
- Recognition of study and examination achievements
- Applying for an examination certificate

Internships/Tutor Activity

- Internship
- Master's level practical assignments or projects
- Tutor activity

Read your study documents carefully!

You have to know your rights and duties as a student!

Course Catalogue = LSF

Study Plan Computer Science

1	Mathematics for Computer Scientists 1 (9 CP)	Programming 1 (9 CP)	Lecture Series on “Perspectives in Computer Science” (2 CP)	Language Course (6 CP)	26
2	Mathematics for Computer Scientists 2 (9 CP)	Programming 2 (9 CP)	System Architecture (9 CP)	Mandatory elective (e.g., Language course, 3 CP)	30
offered during the break between summer and winter term: “Software Engineering Lab” (9 CP)					9
3	Mathematics for Computer Scientists 3 (9 CP)	Introduction to Theoretical Computer Science (9 CP)	Fundamentals of Data Structures and Algorithms (6 CP)	Introductory Seminars (5 CP)	29
4	Big Data Engineering (6 CP)	Concurrent Programming (6 CP)	Core Lecture (9 CP)	Seminar (7 CP)	28
5	Elements of ML (6 CP)	Core Lecture (9 CP)	Core / Advanced Lecture (9 CP)	Mandatory elective (e.g., Tutoring, 4 CP)	28
6	Core / Advanced Lecture (9 CP)	Bachelor’s Seminar (9 CP)	Bachelor’s Thesis (12 CP)		30

Computer Science: Structure and Content

1) 2 CP (ungraded) from the mandatory area ‘Lecture Series on Topics in Computer Science’

→ Perspectives in Computer Science

→ ⓘ Basics of Computer Science / Project (Mandatory)

Lect.-No.	Lecture	Type	Activity
159919	Programming 1 - Hermanns	Introductory lecture course	
159920	Fundamentals of Data Structures and Algorithms - Bläser , Bringmann	Introductory lecture course	
159921	Introduction to Theoretical Computer Science - Seidel	Introductory lecture course	
159922	Lecture Series Perspectives in Computer Science - Nagashima	Lecture	
159933	Elements of Machine Learning - Valera Martinez	Lecture / Exercise/problem-solving class	

Computer Science: Structure and Content

2) 27 CP (graded) from the mandatory area ‘Fundamentals of Mathematics’

Winter: ‘Mathematics for Computer Scientists 1’ and ‘Mathematics for Computer Scientists 3’

Summer: ‘Mathematics for Computer Scientists 2’

→ ⓘ Basics of Mathematics (Mandatory)

Lect.-No.	Lecture	Type	Activity
160501	Mathematics for Computer Scientist III - Zähle , Mitarbeitende des Lehrstuhls	Lecture / Exercise/problem-solving class	
160841	Mathematics for Computer Scientists I - Groves , Mitarbeitende des Lehrstuhls	Lecture / Exercise/problem-solving class	

Computer Science: Structure and Content

3) 60 CP (graded) from the mandatory area ‘Fundamentals of Computer Science’, e.g.:

Winter: ‘Programming 1’

Summer: ‘Programming 2’

→ ⓘ Basics of Computer Science / Project (Mandatory)

Lect.-No.	Lecture	Type	Activity
159919	Programming 1 - Hermanns	Introductory lecture course	
159920	Fundamentals of Data Structures and Algorithms - Bläser , Bringmann	Introductory lecture course	
159921	Introduction to Theoretical Computer Science - Seidel	Introductory lecture course	
159922	Lecture Series Perspectives in Computer Science - Nagashima	Lecture	
159933	Elements of Machine Learning - Valera Martinez	Lecture / Exercise/problem-solving class	

Computer Science: Structure and Content

4) 9 CP (ungraded) from the mandatory practical skills classes

→ Practical Training ‘Software Engineering Lab’

Takes place during the break between summer and winter semesters

Prerequisite: Passing ‘Programming 1 + 2’

Computer Science: Structure and Content

5) 5 CP (graded) from the mandatory elective category ‘Introductory Seminars on Topics in Computer Science’ (each worth 5 credits)

6) 7 CP (graded) from the mandatory elective category ‘Seminars on Topics in Computer Science’

7) 18 graded credits from the core lecture courses in computer science (each worth

9 credits; module category: mandatory elective)

Computer Science: Structure and Content

8) 18-21 CP (graded) from the core or advanced lecture courses on Computer Science

9) At least 6 CP (ungraded) from the mandatory elective category ‘German or English Language Courses’

Note: the language chosen shall not be the student’s first/native language

Computer Science: Structure and Content

10) At least 7 CP (ungraded) from the mandatory elective category ‘Freely Selectable Modules’

- Language courses
- Tutoring
- Soft skills
- Internship

  etc.

11) 9 CP (graded) from the ‘Bachelor’s Seminar’ module and 12 CP (graded) from the ‘Bachelor’s Thesis’ module.

Study Plan Cybersecurity

← Semester					CP →
1	Programming 1 (9 CP)	Mathematics for Computer Scientists 1 (9 CP)	Foundations of Cyber Security 1 (9 CP)	Mandatory Elective (e.g., Introduction to Python, 3 CP)	30
2	Programming 2 (9 CP)	Mathematics for Computer Scientists 2 (9 CP)	Foundations of Cyber Security 2 (6 CP)	Language Course (6 CP)	30
3	Cyber Security Lab (6 CP)	Introduction to Theoretical Computer Science (9 CP)	Fundamentals of Data Structures and Algorithms (6 CP)	Cyber Security Proseminar (5 CP)	26
4	Cryptography (9 CP)	System Architecture (9 CP)	Cyber Security Complementary Lecture (6 CP)	Statistics Lab (6 CP)	30
	"Software Engineering Lab" (9 CP) offered during the break between summer and winter term				9
5	Advanced Lecture Cyber Security (6 CP)	Elements of Machine Learning (6 CP)	Cyber Security Complementary Lecture (6 CP)	Cyber Security Seminar (7 CP)	25
6	Advanced Lecture Cyber Security (6 CP)	Bachelor's Thesis (12 CP)	Bachelor's Seminar (9 CP)	Mandatory Elective (e.g., language course, 3 CP)	30

Cybersecurity: Structure and Content

1) 18 CP (graded) from the mandatory area ‘Fundamentals of Mathematics’

Winter: ‘Mathematics for Computer Scientists 1’

Summer: ‘Mathematics for Computer Scientists 2’

→ ⓘ Basics of Mathematics (Mandatory)

Lect.-No.	Lecture	Type	Activity
160841	Mathematics for Computer Scientists I - Groves , Mitarbeitende des Lehrstuhls	Lecture / Exercise/problem-solving class	

Cybersecurity: Structure and Content

2) 54 CP (graded) from the mandatory area ‘Fundamentals of Computer Science’, e.g.:

Winter: ‘Programming 1’

Summer: ‘Programming 2’

Basics of Computer Science (Mandatory)

Lect.-No.	Lecture	Type	Activity
159919	Programming 1 - Hermanns	Introductory lecture course	
159920	Fundamentals of Data Structures and Algorithms - Bläser , Bringmann	Introductory lecture course	
159921	Introduction to Theoretical Computer Science - Seidel	Introductory lecture course	
159933	Elements of Machine Learning - Valera Martinez	Lecture / Exercise/problem-solving class	

Cybersecurity: Structure and Content

3) 15 CP (ungraded) from the mandatory practical skills classes

→ Practical Training ‘Software Engineering Lab’ (9 CP)

Takes place during the break between summer and winter semesters

Prerequisite: Passing ‘Programming 1 + 2’

→ Practical Training ‘Cybersecurity Lab’ (6 CP)

Cybersecurity: Structure and Content

4) 24 CP (graded) from the specialized mandatory area of Cybersecurity, e.g.:

Winter: ‘Foundations of ‘Cybersecurity 1’

Summer: ‘Foundations of ‘Cybersecurity 2’

Specialized Mandatory Area

Lect.-No.	Lecture	Type	Activity
159936	Foundations of Cyber Security 1 - Stock	Introductory lecture course	

Cybersecurity: Structure and Content

5) 5 CP (graded) from the mandatory elective category ‘Introductory Seminars on Topics in Cybersecurity’

6) 7 CP (graded) from the mandatory elective category ‘Seminars on Topics in Cybersecurity’

7) At least 12 CP (graded) from the mandatory elective category ‘Core Topics in Cybersecurity’

Cybersecurity: Structure and Content

8) At least 12 CP (graded) from the mandatory elective category ‘Complementary Topics in Cybersecurity’

9) At least 6 CP (ungraded) from the mandatory elective category ‘German or English Language Courses’

Note: the language chosen shall not be the student’s native language)

Cybersecurity: Structure and Content

10) At least 6 CP (ungraded) from the mandatory elective category ‘Freely Selectable Modules’

- Language courses
- Tutoring
- Soft skills
- Internship

  etc.

11) 9 CP (graded) from the ‘Bachelor’s Seminar’ module on topics in Cybersecurity or Computer Science

and 12 CP (graded) from the ‘Bachelor’s Thesis’ module on a topic in the field of Cybersecurity/Computer Science