saarland-informatics-campus.de

MSc Computer Science: Welcome

UNIVERSITÄT
DES
SAARLANDES

SIC Saarland Informatics Campus

Winter Semester, 06.10.2025
Prof. Dr. Verena Wolf

Welcome at SIC

UNIVERSITÄT DES SAARLANDES

CBI CENTER FOR BIOINFORMATICS

M2CI CLUSTER OF EXCELLENCE

CISPA HELMHOLTZ CENTER FOR INFORMATION SECURITY

DFKI

mpi max planck institut informatik

MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS

About us - Research

SIC Saarland Informatics Campus

- **4 informatics institutes** and
  3 collaborating departments on campus
- **2k+ students** from **80+ countries**
- **~ 74 research groups**, 500+ doctoral candidates
- **~ 800 scientists** at Saarland Informatics Campus
- 24 informatics study programs, **16 research fields**
- **6 Konrad Zuse** Medals
  39 ERC Grants
  7 Leibniz Awards

More about us:
https://saarland-informatics-campus.de/en/ueberuns-aboutus/

Your Studies at Saarland University

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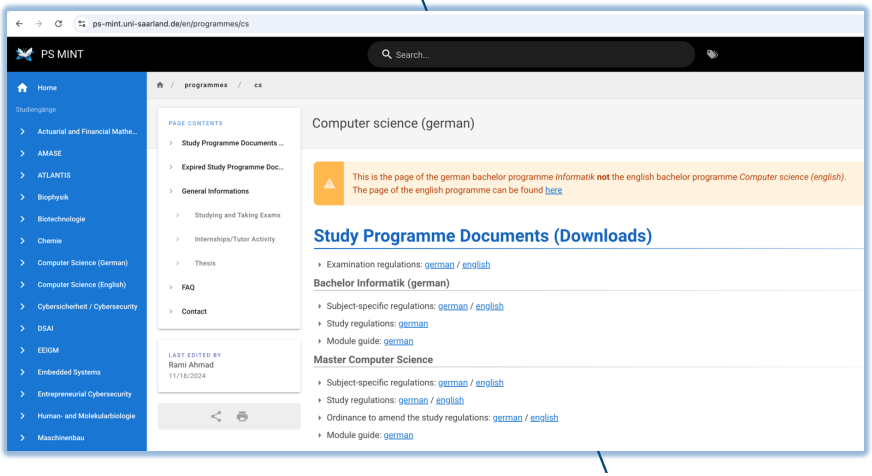
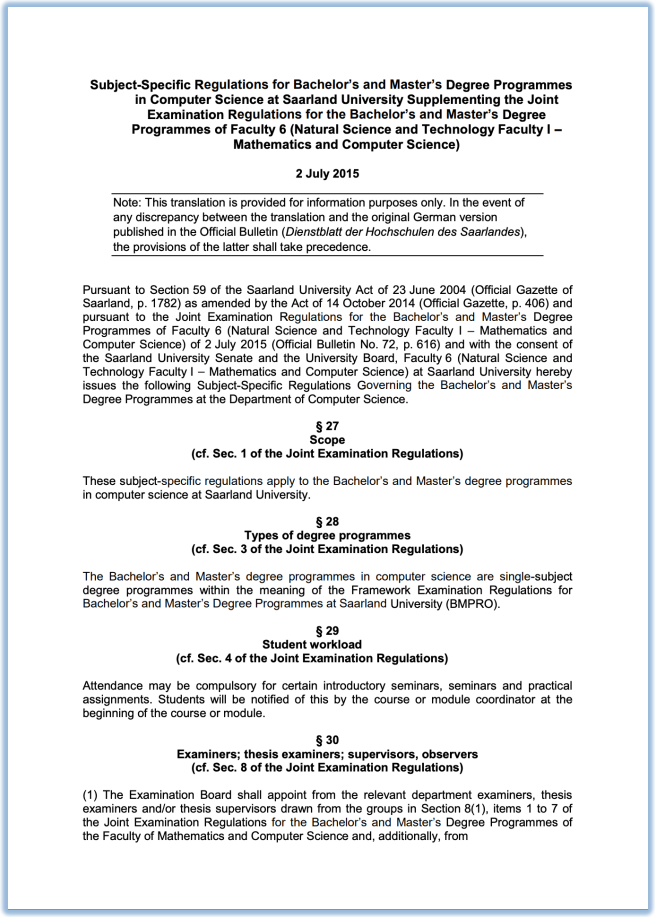


Study Regulations

Read your study documents carefully!



Subject-Specific Regulations for Bachelor's and Master's Degree Programmes in Computer Science at Saarland University Supplementing the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science)

2 July 2015

Note: This translation is provided for information purposes only. In the event of any discrepancy between the translation and the original German version published in the Official Bulletin (*Dienstblatt der Hochschulen des Saarlandes*), the provisions of the latter shall take precedence.

Pursuant to Section 59 of the Saarland University Act of 23 June 2004 (Official Gazette of Saarland, p. 1782) as amended by the Act of 14 October 2014 (Official Gazette, p. 406) and pursuant to the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 2 July 2015 (Official Bulletin No. 72, p. 616) and with the consent of the Saarland University Senate and the University Board, Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) at Saarland University hereby issues the following Subject-Specific Regulations Governing the Bachelor's and Master's Degree Programmes at the Department of Computer Science.

§ 27
Scope
(cf. Sec. 1 of the Joint Examination Regulations)

These subject-specific regulations apply to the Bachelor's and Master's degree programmes in computer science at Saarland University.

§ 28
Types of degree programmes
(cf. Sec. 3 of the Joint Examination Regulations)

The Bachelor's and Master's degree programmes in computer science are single-subject degree programmes within the meaning of the Framework Examination Regulations for Bachelor's and Master's Degree Programmes at Saarland University (BMPRO).

§ 29
Student workload
(cf. Sec. 4 of the Joint Examination Regulations)

Attendance may be compulsory for certain introductory seminars, seminars and practical assignments. Students will be notified of this by the course or module coordinator at the beginning of the course or module.

§ 30
Examiners; thesis examiners; supervisors, observers
(cf. Sec. 8 of the Joint Examination Regulations)

(1) The Examination Board shall appoint from the relevant department examiners, thesis examiners and/or thesis supervisors drawn from the groups in Section 8(1), items 1 to 7 of the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of the Faculty of Mathematics and Computer Science and, additionally, from

Study Regulations for Master's Program Computer Science

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- **27 graded** credits in the category of **core lectures** in computer science
- **27–31 graded** credits in the categories of **core lectures, advanced lectures, or seminars** in computer science (here: at most 1 seminar!)
- **7 graded** credits in the category of **seminars** in computer science
- At least **17 ungraded credits** must be acquired by:
  - Further courses in computer science
  - Master practical training in research groups at CS department (max 6 CP)
  - Internship in a company (max. 6 CP); approved by the examination board
  - Leading a tutorial (tutor, 4 CP)
  - Language courses (max. 6 CP, living language)
  - Courses from other departments, which have been applied for and approved by the examination board (e.g. in mathematics, business informatics or computer linguistics)
- **12 graded** credits for the **Master's seminar** and **30 CP** for the **Master's thesis**

Example master's program Computer Science

#1	Core Lecture 9 CP	Core Lecture 9 CP	Advanced Course 6 CP	Language Course 6 CP	30 CP
#2	Core Lecture 9 CP	Core Lecture 9 CP	Seminar 7 CP	Advanced Course 6 CP	31 CP
#3	Master Seminar 12 CP	Advanced Course 6 CP	Advanced Course 6 CP	Advanced Course 6 CP	30 CP
#4	Thesis 30 CP				30 CP

Example master's program Computer Science

#1	Core Lecture 9 CP
#2	Core Lecture 9 CP
#3	Master Seminar 12 CP
#4	

Credit Points Calculation

- 1 CP = 30 hours of work
- 30 CP = 900 hours of work
- 900/40* = 22.5 weeks of *full-time* work

* Assuming 40 hours of work per week

Example master's program Computer Science

#1	Core Lecture 9 CP	Core Lecture 9 CP	Advanced Course 6 CP	Language Course 6 CP	30 CP
#2	Core Lecture 9 CP	Core Lecture 9 CP	Seminar 7 CP	Advanced Course 6 CP	31 CP
#3	Master Seminar 12 CP	Advanced Course 6 CP	Advanced Course 6 CP	Advanced Course 6 CP	30 CP
#4	Thesis 30 CP				30 CP

Example Course List:
Core courses (offered at least every two years)

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Algorithms and Data Structures
Artificial Intelligence
Automated Reasoning
Compiler Construction
Computer Algebra
Computer Graphics
Data Base Systems
Software Engineering
Image Processing an Computer Vision
Human Computer Interaction
Data Networks
Operating Systems
Distributed Systems
Complexity Theory
Machine Learning
Embedded Systems
Security
Digital Transmission, Signal Processing
Verification
Semantics
Optimization
Computational Logic
Cryptography

LSF/CMS: finding core (and advanced) courses

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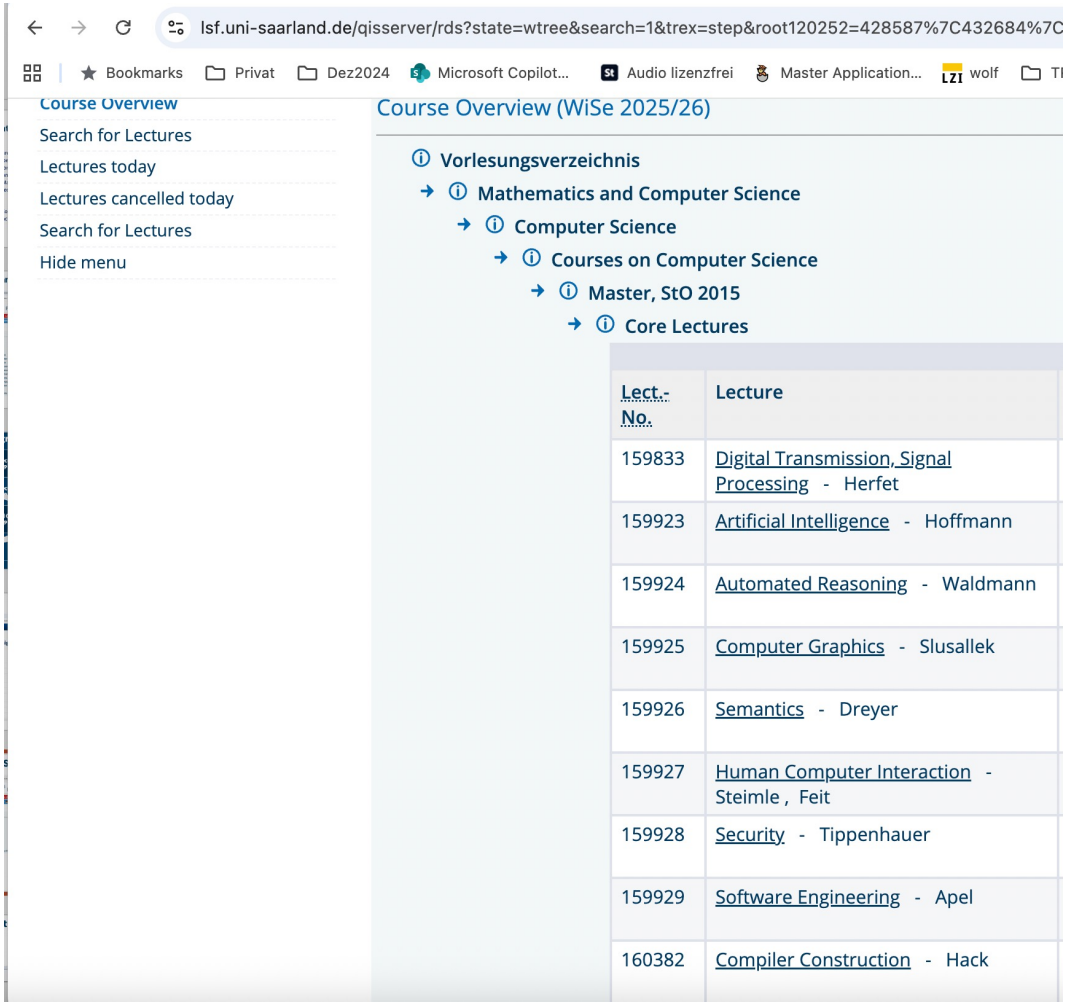
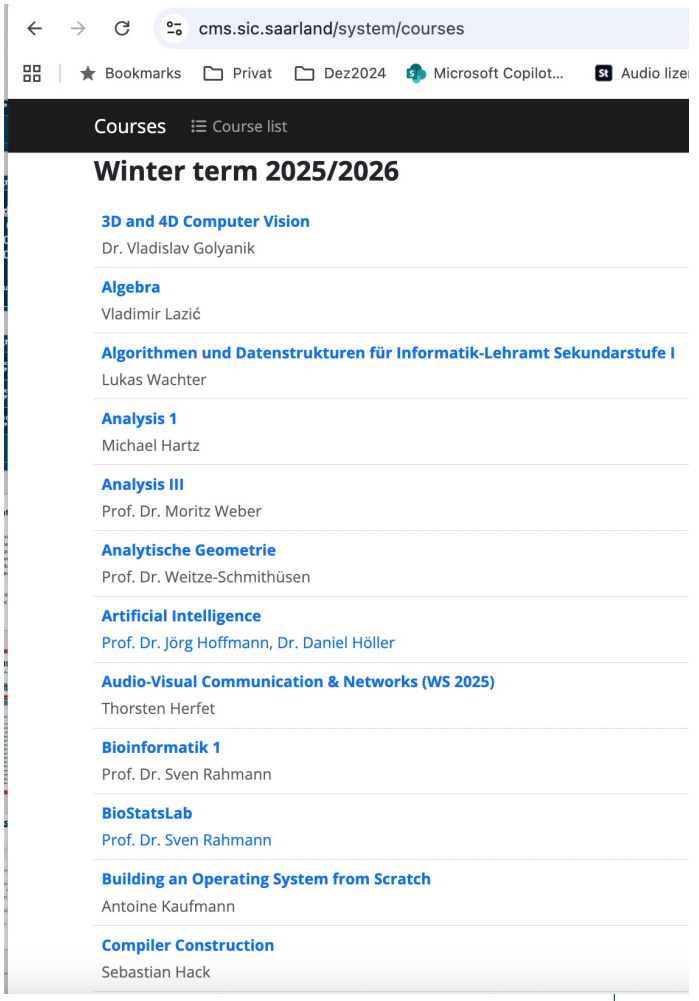
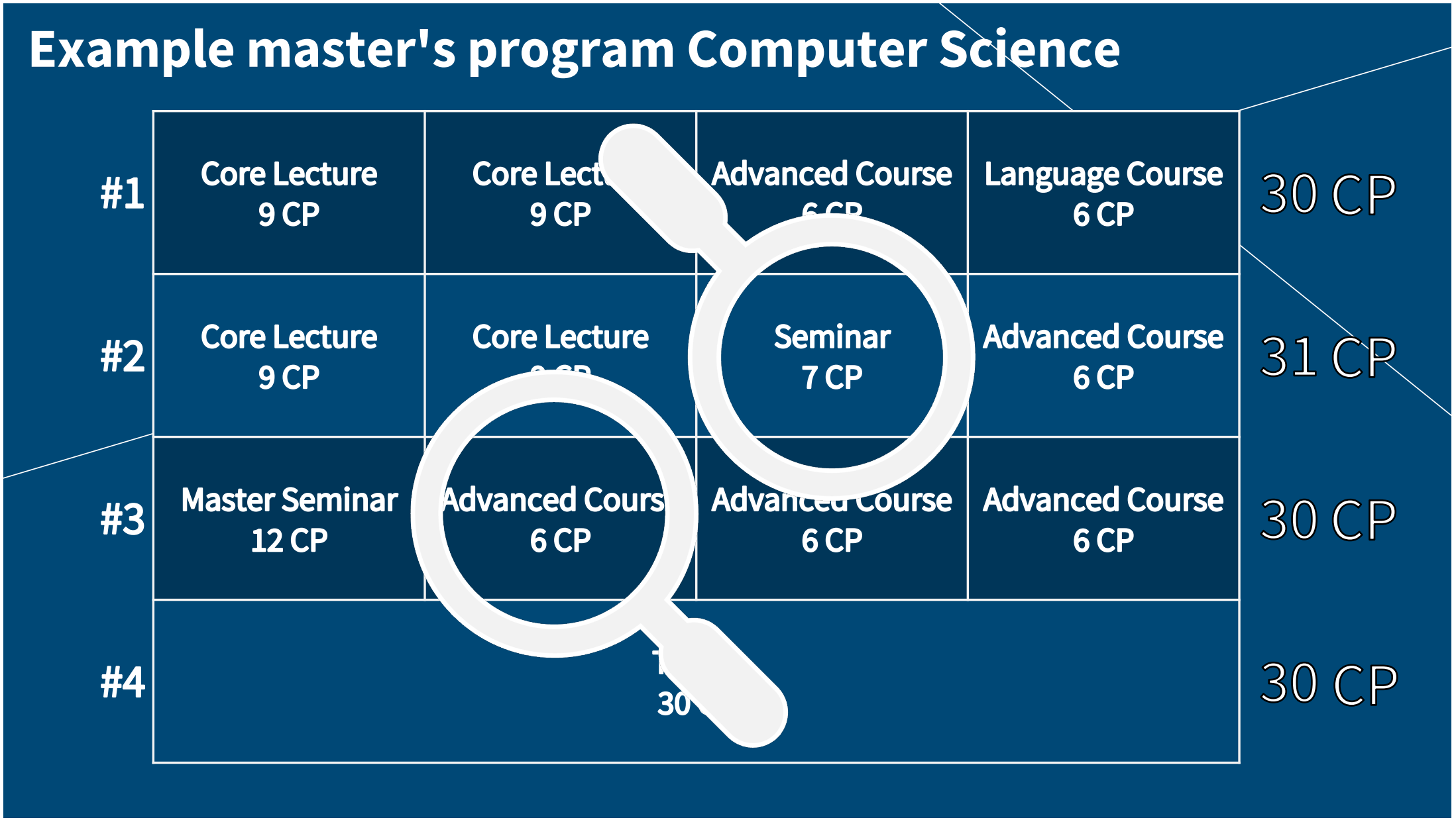
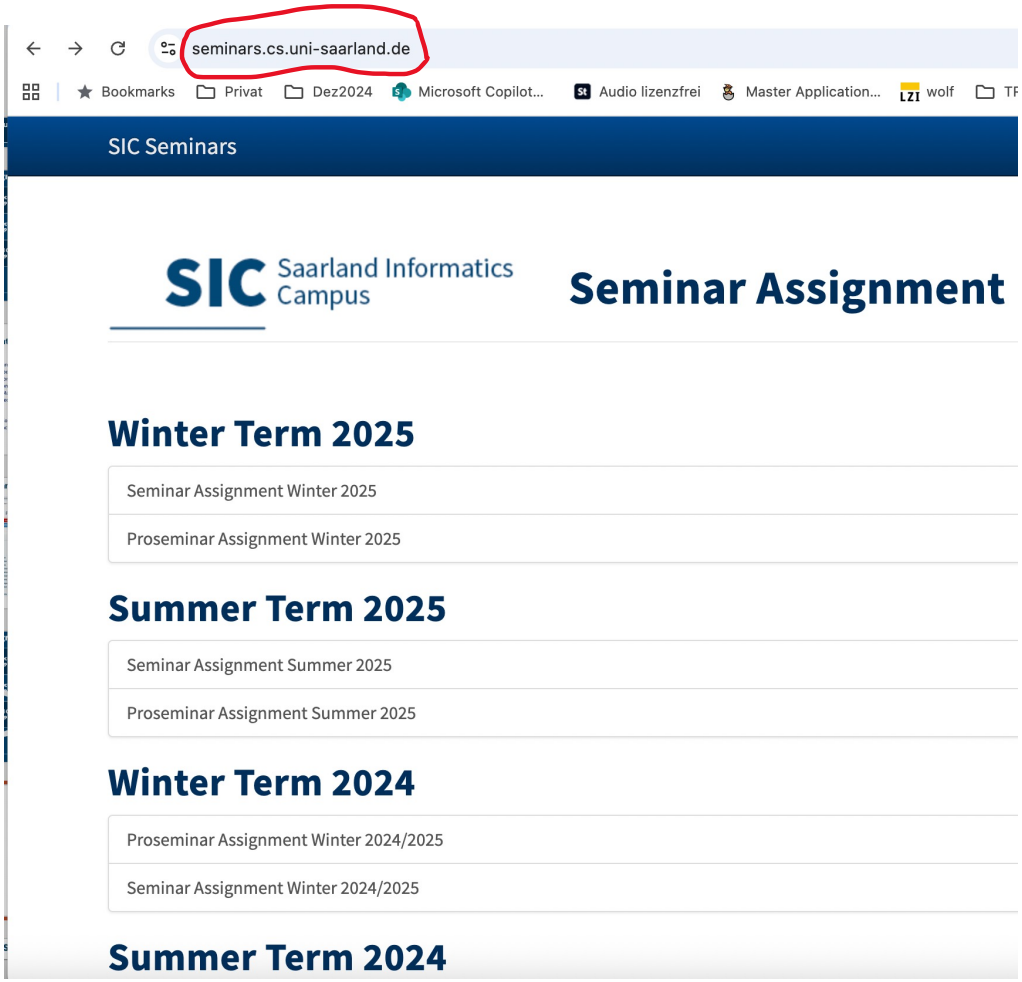




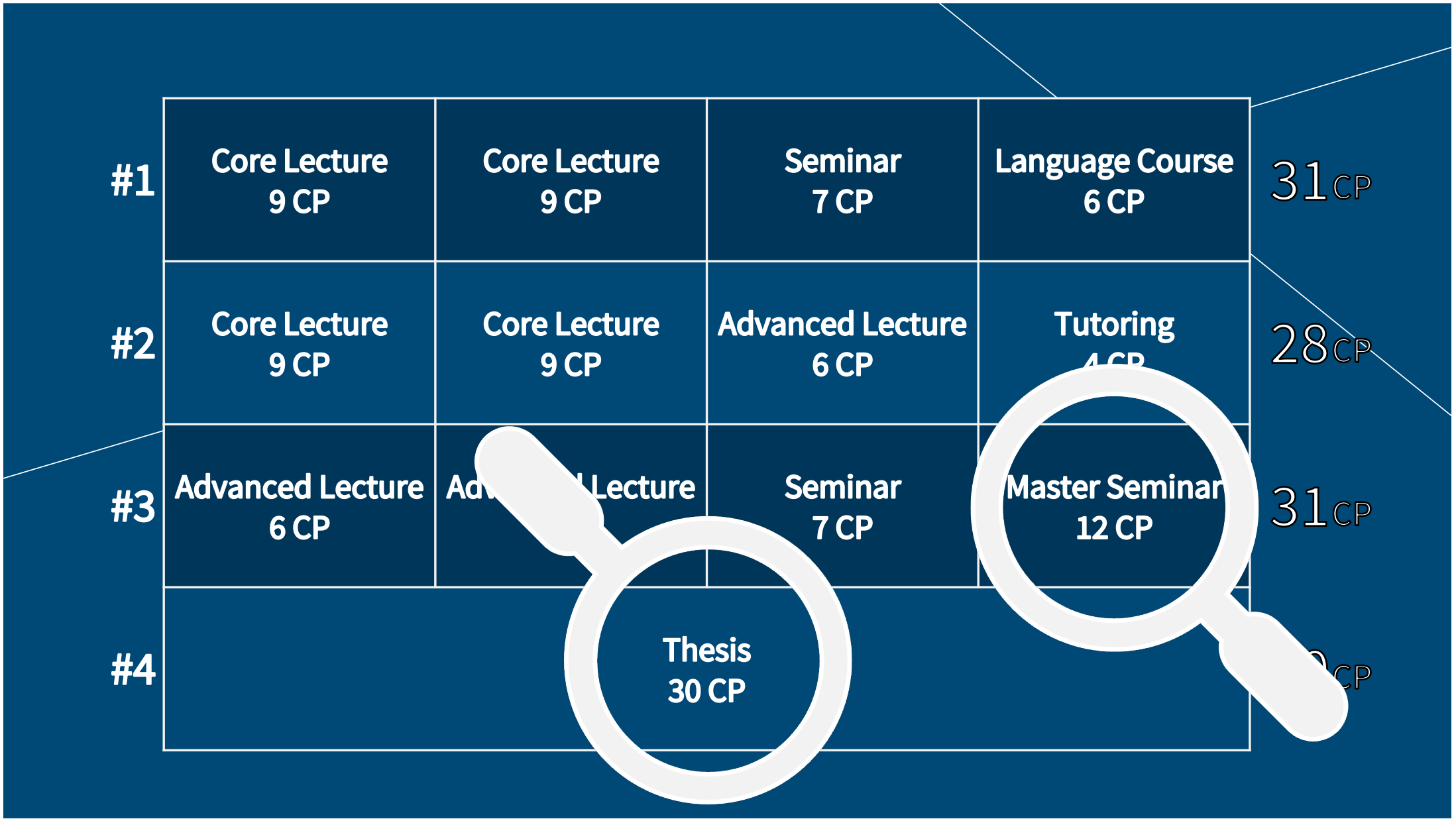
Example master's program Computer Science



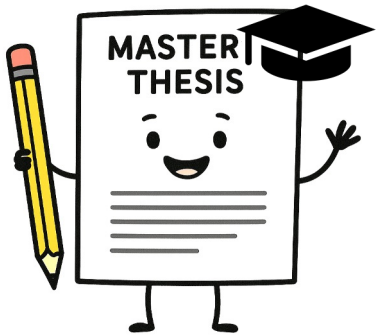
Finding Seminars



Adaptive User Interfaces for Mixed Reality – a practical research seminar
Advances in Hybrid Artificial Intelligence
AI Safety
Aspects of Quantitative Program Verification
Building an Operating System from Scratch
Complexity of Games
Current Research in Databases
Data and Society
Deep Learning Efficiency: Smarter AI, Not Just Bigger
Deep Probabilistic Generative Models
Differential Privacy in the Era of Foundation Models
Efficient Training of Large Language Models
Explainable Machine Learning Seminar (ExML)
Explainable Reinforcement Learning on GPUs
Formalizing Mathematics in LEAN
Foundations of Flow Matching for Generative Modelling
Generative AI for Education
Hands-On Computer Architecture
Hot Topics in Data Networks
How We Know What We Know: Research Methods in Computer Science
Inpainting-Based Image Compression
Just Beyond P
Legal Tech und eJustice
Living “AI-ducation” Dashboard
Machine Learning Approaches for Building Virtual Cell Models
Machine Learning for Language Processing
Milestones in Machine Learning and Language: Historical Readings
Modern Minimal Perfect Hashing: A Survey
Optimal Control
Privacy in Computations and Communications
Privacy Systems and Applications Seminar
Program Synthesis
Router Lab
Security at the Hardware-Software Interface
The Humans of Computing: Past, Present and Future
Theoretical Abilities and Limitations of Language Models
The Web Security Seminar
Topics in Optimization for Machine Learning
Trusted AI Planning (TAIP)
Trustworthy Agentic Systems
Trustworthy Machine Learning


#1
Core Lecture
9 CP
Core Lecture
9 CP
Seminar
7 CP
Language Course
6 CP
31 CP
#2
Core Lecture
9 CP
Core Lecture
9 CP
Advanced Lecture
6 CP
Tutoring
4 CP
28 CP
#3
Advanced Lecture
6 CP
Seminar
7 CP
Master Seminar
12 CP
31 CP
#4
Thesis
30 CP

Master seminar



Master Seminar (12 ECTS)

Objective: Prepares students for their Master's Thesis

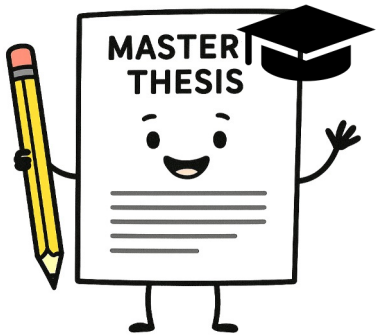
Typical requirements:

- *Presentation:* Students must give an oral presentation about their intended thesis topic
- *Written Proposal:* A written description (problem, objectives, and methodology)

Timeline: Register Master's thesis topic within one semester after Master Seminar;

failure to meet this deadline will require attendance in a new seminar

Master thesis



Master Thesis (30 ECTS)

Objective: Demonstrate ability to independently solve complex problems in *Computer Science*

Duration: max. six months after official registration

Colloquium: 30-minute colloquium (oral defense) within six weeks after thesis submission

Assessment and Grading: The thesis (and colloquium) are graded, significantly contributing to the overall Master's degree grade

Exams and submitted work

Written exams, oral exams, seminar presentations, and project work

- possibility to retake core lecture exams once, in the same semester to improve your grade

- **Originality:** All submitted work must reflect your own thoughts, analyses, and conclusions

- **Proper Citation:** Always acknowledge sources of ideas, data, code, images, …

Plagiarism & AI Chatbots

- **Zero Tolerance for Plagiarism:** Plagiarism can lead to severe academic penalties, including failing grades, suspension, or expulsion

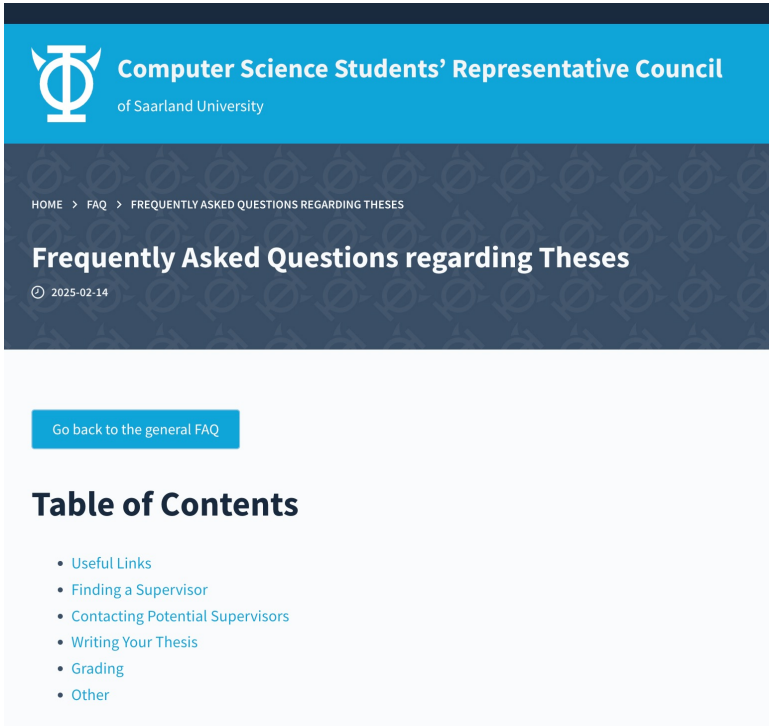
AI Chatbots:

- for thesis or other texts: it is easy to detect that your text does not have the required “depth” and logic
- for exercise sheets: train creative solution finding; don’t let the AI do the brain work for you

IT ONLY PAYS OFF IF YOU USE IT WISELY!

Finding a thesis

- Choose your courses strategically
- Approach potential supervisors
- Special case: External thesis



https://cs.fs.uni-saarland.de/en/faq-thesis/

Contacts

Study Coordinators: Dr. Rahel Stoike Sy and Barbara Schulz-Brünken
questions about the examination and study regulations, academic or personal problems, information about exchange semesters, etc.

Building E1.3, 2nd floor
Office hours: online or on-site appointment: https://www.uni-saarland.de/en/department/department-of-computer-science/department.html
Emails to: studium@cs.uni-saarland.de

Examination office: Bianca Faußß
Transcript of record, registration master thesis, official certificates, recognition of external academic achievements, etc.

Building E1.3, room 202
Office hours: Mondays, Tuesdays and Thursdays, 9.30 -11.00 a.m. (information on website)
Emails to: cs@ps-mint.uni-saarland.de

SIC System Administration: https://it.cs.uni-saarland.de/

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https://saarland-informatics-campus.de/en/studium-studies/

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