

saarland-informatics-campus.de

# MSc Computer Science: Welcome

**Winter Semester, 06.10.2025**  
**Prof. Dr. Verena Wolf**



UNIVERSITÄT  
DES  
SAARLANDES

**SIC**

Saarland Informatics  
Campus

# Welcome at SIC

## Saarland Informatics Campus

Welcome to your place of study  
in the heart of Europe.



**SIC** Saarland Informatics  
Campus



UNIVERSITÄT  
DES  
SAARLANDES



CBI CENTER FOR  
BIOINFORMATICS



CLUSTER OF EXCELLENCE



CISPA  
HELMHOLTZ CENTER FOR  
INFORMATION SECURITY



max planck institut  
informatik



MAX PLANCK INSTITUTE  
FOR SOFTWARE SYSTEMS



# About us - Research

- **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**

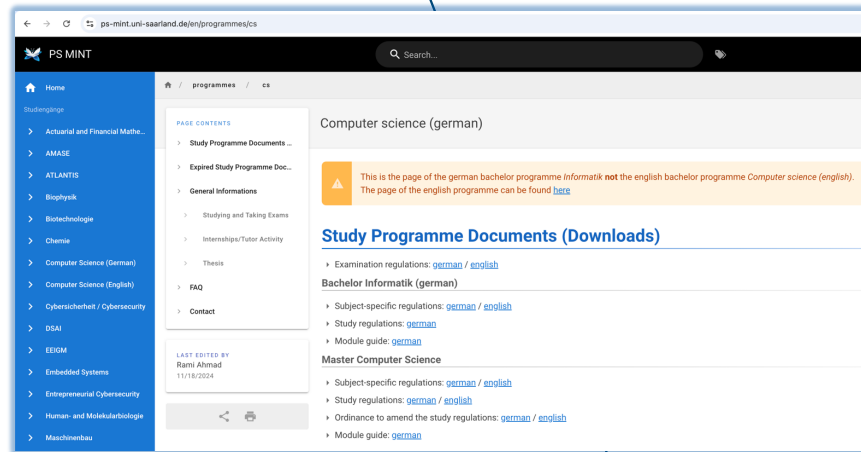


**More about us:**

<https://saarland-informatics-campus.de/en/ueberuns-aboutus/>



**Your Studies at Saarland  
University**



# 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

- **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

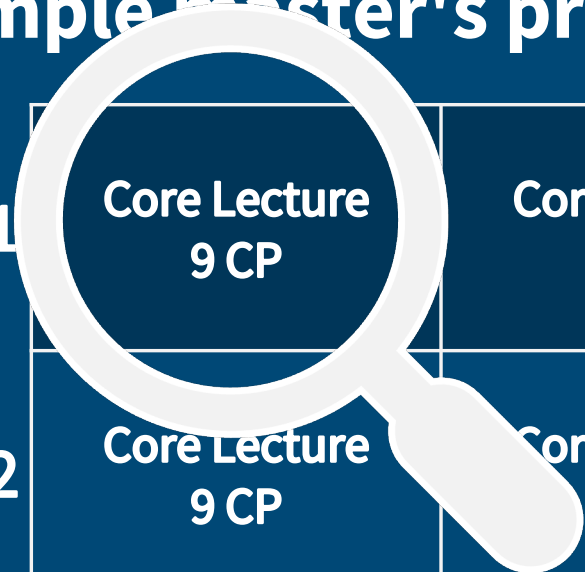
#1	Core Lecture 9 CP
#2	Core Lecture 9 CP
#3	Master Seminar 12 CP
#4	

## 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)

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

# LSF/CMS: finding core (and advanced) courses

lsf.uni-saarland.de/qisserver/rds?state=wtree&search=1&trex=step&root120252=428587%7C432684%7C

Course Overview

Search for Lectures

Lectures today

Lectures cancelled today

Search for Lectures

Hide menu

Course Overview (WiSe 2025/26)

- ① Vorlesungsverzeichnis
  - ① Mathematics and Computer Science
    - ① Computer Science
      - ① Courses on Computer Science
        - ① Master, StO 2015
          - ① Core Lectures

Lect. No.	Lecture
159833	<a href="#">Digital Transmission, Signal Processing</a> - Herfet
159923	<a href="#">Artificial Intelligence</a> - Hoffmann
159924	<a href="#">Automated Reasoning</a> - Waldmann
159925	<a href="#">Computer Graphics</a> - Slusallek
159926	<a href="#">Semantics</a> - Dreyer
159927	<a href="#">Human Computer Interaction</a> - Steimle, Feit
159928	<a href="#">Security</a> - Tippenhauer
159929	<a href="#">Software Engineering</a> - Apel
160382	<a href="#">Compiler Construction</a> - Hack

cms.sic.saarland/system/courses

Courses Course list

## Winter term 2025/2026

**3D and 4D Computer Vision**  
Dr. Vladislav Golyanik

**Algebra**  
Vladimir Lazić

**Algorithmen und Datenstrukturen für Informatik-Lehramt Sekundarstufe I**  
Lukas Wachter

**Analysis 1**  
Michael Hartz

**Analysis III**  
Prof. Dr. Moritz Weber

**Analytische Geometrie**  
Prof. Dr. Weitze-Schmithüsen

**Artificial Intelligence**  
Prof. Dr. Jörg Hoffmann, Dr. Daniel Höller

**Audio-Visual Communication & Networks (WS 2025)**  
Thorsten Herfet

**Bioinformatik 1**  
Prof. Dr. Sven Rahmann

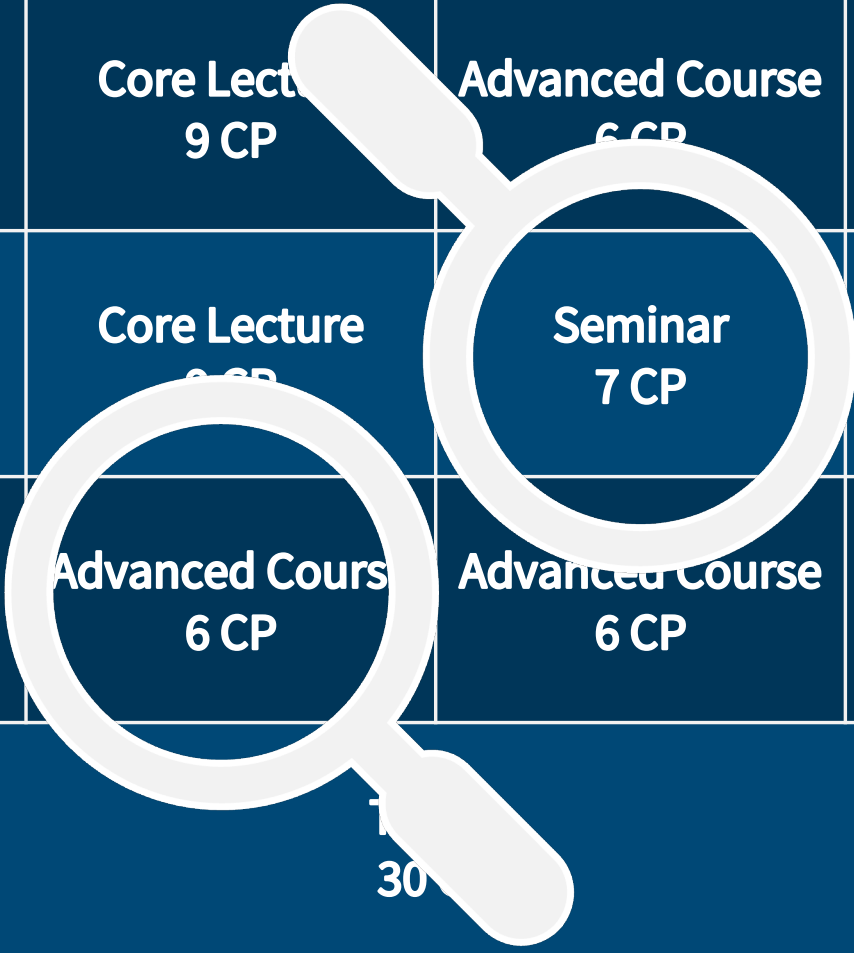
**BioStatsLab**  
Prof. Dr. Sven Rahmann

**Building an Operating System from Scratch**  
Antoine Kaufmann

**Compiler Construction**  
Sebastian Hack

# 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	1 30				30 CP





# Finding Seminars

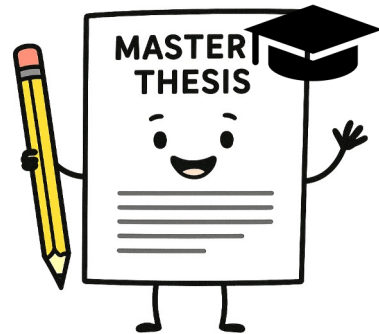
The screenshot shows a web browser with the address bar containing `seminars.cs.uni-saarland.de`, which is circled in red. The website has a dark blue header with the text "SIC Seminars". Below the header, the "SIC Saarland Informatics Campus" logo is on the left, and "Seminar Assignment" is on the right. The content is organized into sections for different terms:

- Winter Term 2025**
  - Seminar Assignment Winter 2025
  - Proseminar Assignment Winter 2025
- Summer Term 2025**
  - Seminar Assignment Summer 2025
  - Proseminar Assignment Summer 2025
- Winter Term 2024**
  - Proseminar Assignment Winter 2024/2025
  - Seminar Assignment Winter 2024/2025
- Summer Term 2024**

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 <sub>CP</sub>
#2	Core Lecture 9 CP	Core Lecture 9 CP	Advanced Lecture 6 CP	Tutoring 4 CP	28 <sub>CP</sub>
#3	Advanced Lecture 6 CP	Advanced Lecture 9 CP	Seminar 7 CP	Master Seminar 12 CP	31 <sub>CP</sub>
#4	Thesis 30 CP				30 <sub>CP</sub>

## 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

The screenshot shows the website of the Computer Science Students' Representative Council of Saarland University. The header is blue with the council's logo and name. Below the header, a dark blue banner contains the page title 'Frequently Asked Questions regarding Theses' and a timestamp '2025-02-14'. A button labeled 'Go back to the general FAQ' is visible. The main content area is titled 'Table of Contents' and lists several links: 'Useful Links', 'Finding a Supervisor', 'Contacting Potential Supervisors', 'Writing Your Thesis', 'Grading', and 'Other'.

Computer Science Students' Representative Council  
of Saarland University

HOME > FAQ > FREQUENTLY ASKED QUESTIONS REGARDING THESES

**Frequently Asked Questions regarding Theses**  
🕒 2025-02-14

[Go back to the general FAQ](#)

**Table of Contents**

- [Useful Links](#)
- [Finding a Supervisor](#)
- [Contacting Potential Supervisors](#)
- [Writing Your Thesis](#)
- [Grading](#)
- [Other](#)

<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, 2<sup>nd</sup> floor

**Office hours:** online or on-site appointment: <https://www.uni-saarland.de/en/departments/departments-of-computer-science/departments.html>

**Emails to:** [studium@cs.uni-saarland.de](mailto:studium@cs.uni-saarland.de)

## **Examination office: Bianca Fauß**

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](mailto:cs@ps-mint.uni-saarland.de)

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

# Welcome!



**SIC** Saarland Informatics  
Campus



**Let's be  
friends,  
follow us!**



**Connect with us on Instagram**  
@Saarland\_Informatics\_Campus



**Like us on Facebook**  
Saarland Informatics Campus #SIC



**Watch us on YouTube**  
Saarland Informatics Campus



**All about studying at SIC and more**  
<https://saarland-informatics-campus.de/en/studium-studies/>

**SIC** Saarland Informatics  
Campus



UNIVERSITÄT  
DES  
SAARLANDES



CENTER FOR  
BIOINFORMATICS



German  
Research Center  
for Artificial  
Intelligence



max planck institut  
informatik



MAX PLANCK INSTITUTE  
FOR SOFTWARE SYSTEMS