08.10.2020

Welcome to Saarland Informatics Campus for Master Students in Computer Science

Prof. Jan Reineke, Dean of Studies
Research

- 6 informatics institutes and 3 collaborating departments on campus
- Around 2,000 students from more than 70 countries
- 70 research groups, 300 doctoral candidates
- ~ 850 scientists at SIC
- 18 informatics study programs
- 22 ERC Grants, 7 Leibniz Awards
- 4 Konrad Zuse Medals
- Ranked among the top 4 German CS departments (CHE-Ranking 2018)

More about us:
https://saarland-informatics-campus.de/en/ueberuns-aboutus/
SIC and the Industry

- Numerous cooperations with local industry (36)
  - z.B. Dillinger, Saarstahl, ZF, Hydac, SAP

- and international companies (82) like
  - Google, Microsoft, Facebook, Intel, Samsung, IBM, EADS, Microsoft, Bosch, Airbus, Siemens, etc.

- Since 2006 more than 70 start ups
- 1 Euro Budget → ~ 2,5 Euro acquired 3rd party funds
Master students CS

- In total: 456 bachelor students and 424 master students in Computer Science

- Students from around 70 different countries in the CS department

- 48 professors and co-opted professors as well as 31 junior research groups
You have to know your rights and duties as student!

Study Regulations 2015 for Master of Computer Science

Read your study documents carefully!

examination regulations, subject-specific regulations and study regulations:

Winter term 2020/21
- during the Coronavirus pandemic

- **Same set of courses** will be offered as during a regular winter term but courses will be offered using **online formats**

- **Information** about online courses and online tutorials is provided on the webpages of the lecturers

- Further Information:
  
  
Study Regulations 2015 for Master of Computer Science

1) **27 graded** credits in the category of **core lectures** in computer science
2) **27–31 graded** credits in the categories of **core lectures, advanced lectures, or seminar** in computer science (here: at most 1 seminar!)
3) **7 graded** credits in the category of **seminars** in computer science
4) At least **17 ungraded credits** must be acquired by:
   - Further courses in computer science
   - Master practical training in research groups at CS department
   - Internship in a company (max. 6 CP); approved by the examination board
   - Leading a tutorial (tutor)
   - 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)

5) **12 graded** credits for the **Master seminar** and **30 CP** for the **Master thesis**
Example Course List
All our 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
- Computer Architecture
- Machine Learning
- Computer Graphics
- Embedded Systems
- Cryptography
- Information Retrieval and Data Mining
- Data Base Systems
- Software Engineering
- Telecommunications
- Image Processing and Computer Vision
- Verification
- Human Computer Interaction
- Geometric Modelling
- Computational Logic
- Security
How to choose a lecture – example: core lecture

Course catalogue (LSF)

Faculty Mathematics and Computer Science → Courses on Computer Science
https://www.lsf.uni-saarland.de/qissserver/rds?state=wtree&search=1&trex=step&root120201=253136|251379|252597|255390&P.vx=kurz

(Basic Lectures and Introductory Seminars can only be taken by bachelor students)
# How to choose a lecture – example: Computer Graphics

## Course list (Core lectures)

<table>
<thead>
<tr>
<th>Lect.-No.</th>
<th>Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>126605</td>
<td>Computer-Algebra: Groebner Basen und Anwendungen - Schreyer, Mitarbeiter des Lehrstuhls</td>
</tr>
<tr>
<td>126728</td>
<td>Database Systems - Dittrich</td>
</tr>
<tr>
<td>126730</td>
<td>Automated Reasoning - Weidenbach</td>
</tr>
<tr>
<td>126731</td>
<td>Security - Pellegrino, Tipenhauer</td>
</tr>
<tr>
<td>126732</td>
<td>Digital Transmission, Signal Processing (Telecommunications I) - Herfet</td>
</tr>
<tr>
<td>126733</td>
<td>Computer Graphics - Slusalliek</td>
</tr>
<tr>
<td>126734</td>
<td>Human Computer Interaction - Steimle, Strohmeier</td>
</tr>
<tr>
<td>126736</td>
<td>Compiler Construction - Hack</td>
</tr>
<tr>
<td>128743</td>
<td>Software Engineering - Apel</td>
</tr>
<tr>
<td>127163</td>
<td>Algorithms and Data Structures - Künemann, Bringmann</td>
</tr>
</tbody>
</table>

*Online lectures and tutorials*
Please follow the instructions given on the webpage and/or join the first lecture.

https://graphics.cg.uni-saarland.de/courses/cg1-2020/index.html
## Example master’s program Computer Science

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Course</th>
<th>Core course</th>
<th>Advanced course</th>
<th>Language course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Core course</td>
<td>Core course</td>
<td>Advanced course</td>
<td>Language course</td>
</tr>
<tr>
<td>2</td>
<td>Core course</td>
<td>Core or advanced course</td>
<td>Seminar</td>
<td>Advanced course</td>
</tr>
<tr>
<td>3</td>
<td>Masterseminar&lt;br&gt;12 CP</td>
<td>Seminar</td>
<td>Advanced course</td>
<td>Advanced course</td>
</tr>
<tr>
<td>4</td>
<td>Thesis&lt;br&gt;30 CP</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Control of progress

Full-time students are expected to deliver the following minimum requirements in the Master course of study:

- At least 9 credits after 1 semester
- At least 30 credits after 2 semesters
- At least 60 credits after 4 semesters
- At least 90 credits after 6 semesters

In case a student does not meet the minimum requirements for the second time, he/she shall lose the right to participate in examinations. Students shall be given the opportunity to make a written statement before the examination board makes the final decision in the matter.
Examination registration I

Please notice:
For all examinations you have to register in LSF one week before the exam at the latest (final exam and/or re-exam)!

A delayed registration is not allowed!
A withdrawal is possible one week before the respective exam at the latest; later only with a medical certificate!

Only for core lectures:
You can improve a grade in a core course if you pass the final exam and take part in the re-exam in the same exam period.
The better grade counts.
Examination registration II

For some courses e.g. seminars you have also to register before the course starts (limited number of participants). Please have a look at the respective website because of the conditions for registration.
Seminar registration: https://seminars.cs.uni-saarland.de/

A withdrawal from a seminar registration is only possible three weeks after getting the topic for presentation.

Problems? Please contact the study coordination!
Contact persons (1/2)

**Study Coordinators:**

Dr. Tanja Breinig and Barbara Schulz-Brünken

- **Assistance** in your study organisation and progress: questions about the examination and study regulations, academic or personal problems, information about exchange semesters, etc.

- Building E1.3, rooms 209 and 208
- Office hours: **Tuesday and Thursday, 11 a.m.-1 p.m. (currently not be offered due to the Corona pandemic)**
- Please send an email to: studium@cs.uni-saarland.de
Contact persons (2/2)

Examination office:
Bianca Schaum
• Administration and processing of your programme achievements: Transcript of record, registration master thesis, official certificates, recognition of external academic achievements, etc.

• Building E1.3, room 202
• Office hours: Mondays to Thursdays, 10.30 -11.30 a.m. (currently not be offered due to the Corona pandemic)
• Please send an email to: cs@ps-mint.uni-saarland.de

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

@ the Saarland Informatics Campus

@ Saarland University