

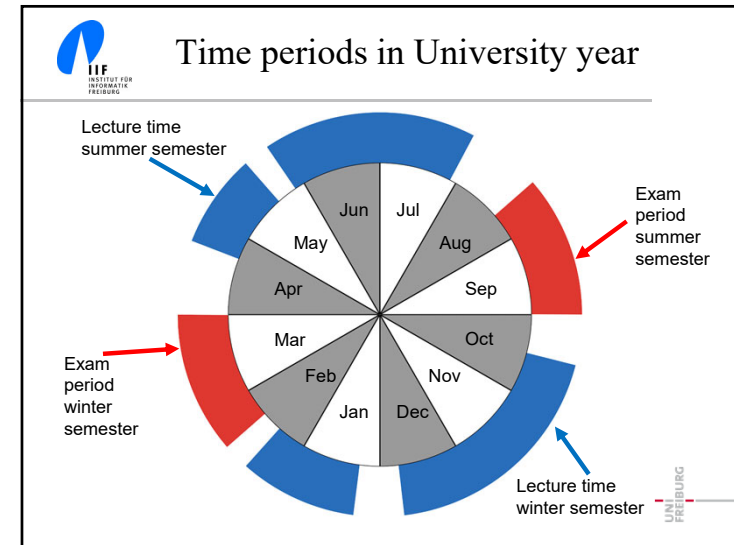
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How to make your study plan

For further questions contact the study advisor,
Martina Nopper:
studienberatung@informatik.uni-freiburg.de
Web: <https://www.tf.uni-freiburg.de/en/study-programs/counseling>
→ Academic Advising Computer Science

Consulting hours:
Monday + Wednesday 2 p.m. – 4 p.m.
Tuesday + Thursday 10 a.m. – 12 noon

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Course types in Computer Science

Course type (English)	Kursart (German)	Short description
Lecture and exercise / tutorial	Vorlesung und Übung	Presentation with questions / discussions from a lecturer/professor; tutorials provide (practical) exercises
Seminar	Seminar	Mostly theoretical research; summarizing and presenting (writing paper)
Lab course	Praktikum	Practical course with structured assignments (sometimes in special lab rooms), sometimes in groups
(Master) Project (≠ Master Thesis !)	(Master-)Projekt	Individual project with practical and theoretical parts, written portion and final presentation (used as preparation for Master's Thesis)

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Important notes on course types

- **Lectures** and **exercises** belong together even though they are mentioned separately in the course catalogue
→ you have to register for both!
- **Seminars** can be held weekly or as a compact course („Blockseminar“ → sometimes no time given in course catalogue or only for first meeting)
- **Seminars** and **Lab courses** may vary from semester to semester, as most lecturers like to keep up-to-date with their research areas

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What's in the word „course“?

English name	German name	Explanation
Key course	Kurs-vorlesung	6 specific lectures + tutorials offered annually 3 in winter term , 3 in summer term
Specialization course	Spezial-vorlesung	Lots of different lectures + tutorials on various topics, mostly sorted into 3 big categories depending on the research topics (matching the 3 specialization areas)
Application course	Fachfremde s Wahlmodul	Courses of all kinds in some subjects different than Computer Science (sometimes referred to as <i>Nebenfach</i> or <i>Elective</i> , meaning <i>minor subject</i>)

Note: „Study course“ (=Studiengang) is mostly called *study program*

Key courses

Key course	Semester	Related specialization area
Software Engineering / Softwaretechnik	Summer	Cyber-Physical Systems
Computer Architecture / Rechnerarchitektur	Summer	Cyber-Physical Systems
Foundations of Artificial Intelligence / Grundlagen der Künstlichen Intelligenz	Summer	Cognitive Technical Systems
Image Processing and Computer Graphics / Bildverarbeitung und Computergrafik	Winter	Cognitive Technical Systems
Algorithm Theory / Algorithmentheorie	Winter	Information Systems
Databases and Information Systems / Datenbanken und Informationssysteme	Winter	Information Systems


Study plan – what kind and how many courses

	Number	Course Type	Area	ECTS	Category in HISinOne
3 courses in total	1 or 2	Key courses	Any area	6 each	Mandatory modules → core field (also called „core area in Comp. Sc.“)
	2 or 1	Specialization courses	Any area	6 each	Mandatory modules → deepening (also called „Advanced Comp. Sc.“)
2 seminars in total	4	Specialization courses	Specialization area	6 each	Elective modules → spezialisation
	1	Seminar	Specialization area	4	Elective modules → spezialisation
	1	Seminar	Any area	4	Elective modules → spezialisation
	1	Lab course	Any area	6	Mandatory modules → laboratory
	1	Master project (≠ Master thesis!)	Any area	16	Mandatory modules → master project
	x	Application courses (number depends on chosen subject 18 ECTS in total)		18	Elective modules → application area
	1	Master Thesis		30	

Study plan – graphic representation



The diagram illustrates the study plan components:

- any area (in mandatory modules in HISinOne):** 1 or 2 key courses (Core field / area), 2 or 1 specialization courses (Deepening / Advanced C.S.), 1 seminar, 1 lab course, 1 master project. Total: 3 courses in total.
- specialization area (in elective modules → spezialisation in HISinOne):** 4 specialization courses, 1 seminar.
- Application area (in elective modules → application area in HISinOne):** Represented by a yellow box.
- Master Thesis:** Represented by a green oval at the bottom.



Language of instruction



- **Key courses:**
Databases is always in German.
Algorithm Theory is always in English.
The remaining courses are in English every other year:
 - **Winter semester 2018/19:**
“Databases and Information Systems” in German,
“Algorithm Theory” and “Image Processing and Computer Graphics” in English
 - **Summer semester 2019:** “Computer Architecture” in English, “Foundations of Artificial Intelligence” and “Software Engineering” in German (at least that’s the current plan...)
- **Specialization courses** generally in English
- **Seminars, lab courses, projects:**
Language might be negotiated (but no legal claims!)

Specialization areas in Computer Science

- Recommended „initial courses“ for the 3 specialization areas:

Specialization Area	Winter term	Summer term
Cognitive Technical Systems	Computer Vision	Introduction to Mobile Robotics
Cyber-Physical Systems	CPS – Discrete Models	CPS – Program verification
Information Systems	Information Retrieval	Distributed Systems






Application areas

- Archeology (German only)
- Bioinformatics (in English, no previous knowledge required)
- Cognitive Sciences (mostly in German, few English courses available)
- Economics (mostly in English, usually no previous knowledge required)
- Environmental Natural Sciences (German only)
- Mathematics (German only)
- Medicine (German only)
- Microsystems Engineering (in English, no previous knowledge required)
- Neuroscience (in English, no previous knowledge required)
- Physics (German only)
- Political science (German only)
- Psychology (German only; only 3 students per year allowed)


In the application area, at least **18 ECTS** have to be completed.
More information can be found here: <https://www.tf.uni-freiburg.de/en/studies-and-teaching/module-handbooks> → Master Informatik / Computer Science → list of application areas M.Sc. Computer Science PO 2011 (PDF)


For these two areas:
Beforehand:
Registration with academic advisor Martina Nopper necessary!

General Rules and Recommendations



- Most courses are offered every other semester; some can be held irregularly, but that would be mentioned in the module handbook (see HISinOne)
- Usually no dependences in the order of courses
 - Nevertheless, check with lecturers for appropriate combinations or order of courses
- Be aware that you might need to change your original study plan
- It is recommended that the Master’s Thesis fits your specialization area







Tips for your first week

- **Read the official exam regulations!**
(= *terms and conditions of your study program*)
- Study the online course catalogue
- Check out a few more courses than you intend to complete
- Most prerequisites stated in the course catalogue are recommendations, they are not mandatory
- Please note: The first exercise/tutorial might take place **after** the first lecture only; check with lecturer, if unsure
- Register (via HISinOne) for the courses you want to take as soon as possible
- You can cancel again any courses **till the end of the lecture period!**
- For **Seminars** there is a special registration period:
October 15th till 24th!
- Information on dates for course registration:
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates> → Booking deadlines for Bachelor and Master courses



Registering for/ booking of courses

- Have a look at the course catalogue:
<https://campus.uni-freiburg.de>
→ Studies offered
→ Show university course catalog
→ Technische Fakultät
→ Master of Science (M.Sc.)
→ Informatik, PO 2011
- For information on handling the Campus-Management-System see
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/teaching/course-booking>
or use the extensive wiki of HISinOne → Help → Guide for students
- If you have questions or made a mistake while registering:
Contact us!
(me or Ms. Moses in the Dean's office: moses@tf.uni-freiburg.de)

What to do if you forgot to register/book a course


- If you forgot to register for a course (or decide very late you would like to try it):
 - Go to the lecturer and ask if there are still places available and if it generally makes sense to start late
 - For lectures, you can register yourself till the end of the lecture time, but the lecturer might also add you manually in the HISinOne system
 - The examination office **can't** help you here!
- **Registration for an exam in HISinOne is only possible if you are registered for the course!**

Registration for exams



- It's a second, independent step from booking the course. It's **not** done automatically!
- The procedure is similar to booking the courses. For a how-to, see
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/de-registration-of-exams>
- Deadlines for the registration (and de-registration) for exams are also mentioned on this website.
- Without registering for an exam you are not allowed to take it, so **do not forget!**
- To make sure you are correctly registered, we recommend saving/printing the pdf of the in HISinOne → My studies → My course enrollments and exam registrations





How to proceed if you failed an exam



- Number of tries are limited:
 - Every exam can be tried 2 times
 - **Three exams** for courses in the required or elective modules can be tried **3 times**
This rule does not include lab courses or seminars.
- You are registered automatically for the repetition(s) and **cannot sign off!**
- You **cannot** substitute a course you already took an exam in with another one!

What to do in case of illness...



- If you are ill on the exam day...
 1. You should not take the exam!
(You can't „take it back“ once you did it...)
 2. print the Medical certificate for Master students
(<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/forms-examinations-offices>)
[yes, there is a slight typo at the end of the URL...]
 3. go to a general practitioner **on the day of the exam** and ask him to fill in the medical certificate
 4. submit the completed medical certificate within **three work days** to the examination office
(If you are too late, it will be counted as a fail!)

If you are not sure what to do: Ask in time!

Conditional admission

- It is not sufficient to take the exam, you have to attend the course.
- If the lecturer requires any exercises or mid-term exams for admission to the final exam, you also have to fulfill these requirements.
- Exams required for conditional admission can only be repeated once.
- If a conditional course collides with one of your mandatory or elective courses, the **conditional course** should always have **higher priority!**
- You will be automatically registered for these courses, but have to register for the exams yourself
→ Registration for these exams have to be done via PDF form:
<https://www.tf.uni-freiburg.de/de/studium-lehre/a-bis-z-studium/dokumente/Examregistration.pdf>

Information via Internet

Some useful links:

- Faculty of Engineering:
<https://www.tf.uni-freiburg.de/en/studies-and-teaching>
- calendar, dates and deadlines:
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates>
- information about exams etc.:
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq>
- study plans, syllabus, academic rules:
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/module-handbooks>

