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## M.Sc. Informatik / Computer Science

Department of Computer Science Faculty of Engineering University of Freiburg October 12<sup>th</sup>, 2023

### Who am I?

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   More information about consulting (and changes to consulting hours) see here:
   <u>https://www.tf.uni-freiburg.de/en/study-programs/counseling</u>



- 1. How to organize your studies
- 2. Some administrative things
- 3. Some important rules regarding exams
- 4. Where you can get information and help

# 1. Syllabus / Study Plan



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### Very flexible syllabus...

- We provide no ready made schedule! It is **your** decision what you do when.
- Just follow the overall rules in the exam regulations.
- How exactly you put your syllabus together does not really matter to us... In the end, you'll have to have fulfilled the requirements.
- So, none of your study plans will look the same!
- Now, let me explain, how to built your own, individual study plan.

### Vocabulary you should know... part 1

### ŧ.

### **Modules** = building blocks of the syllabus

- Consist of various elements (different symbols/icons in study planner)
- Credits are given for complete module, no "partial credits"

### Courses in the ESE program:

- Lectures Vorlesung (V)
- Exercises Übung (Ü)
- Lab courses Praktikum / Praktische Übung (Pr)
- Seminars Seminar (S)
- Projects Projekt (*also* Pr)

### Vocabulary you should know... part 2

### Graded assessments or pass/fail:

- Coursework or pass/fail assessments ("Studienleistungen", SL)
  - Part of module or final assessment
  - May be graded, or only "pass" or "fail"
  - Not part of the final grade
  - No negative consequences if failed (apart from having to repeat)
- Graded assessments /Exams ("Prüfungsleistungen", PL)
  - Always graded
  - Always counts into the final grade
  - Strict rules/regulations and very limited number of attempts

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### **Syllabus: General structure**



**30 ECTS Master Thesis + Colloquium** (defense)

For optional specialization in AI or CPS:

At least 24 ECTS from according lectures + Study project + Master Thesis in related topic

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### **Optional specialization**

### • Topics in **Artificial Intelligence**:

- Robotics and AI
- Machine learning and Deep learning
- Computer vision and graphics

#### • Topics in Cyber-Physical Systems:

- verification and analysis of hard- and software systems
- software development and programming Course lists as PDFs on program website > languages

Curriculum

embedded systems

#### **Formal requirements:**

- At least the following courses have to be from this area:
  - 4 Specialization courses or Advanced lectures (24 ECTS (6 each))
  - 1 Study project (18 ECTS)
  - 1 Thesis (30 ECTS)

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You have to do at least one advanced lecture, you may take two at the most (the 2nd replaces a specialization course).

7 Defined Modules / Courses:	Semester
Algorithm Theory	Winter
Databases and Information Systems	Winter
Machine Learning	Winter
Computer Architecture	Winter
Foundations of Artificial Intelligence	Summer
Image Processing and Computer Graphics	Summer
Software Engineering	Summer

You have to take 6 or 5 specialization courses (depending how many advanced lecture you take)  $\rightarrow$  in total it's 7.

Lots of different lectures (+ exercises) to choose from in areas like:

- Algorithms / Bioinformatics
- Computer Architecture / OS / Embedded Systems
- Software / Programming
- AI / Robotics / ML / DL
- Computer vision / graphics
- Network / communication / Data bases

### **Seminars and Lab Course**

#### You have to do 2 seminars and 1 lab course

- Seminars generally can be held in a weekly fashion or as a compact course ("Blockseminar") for the presentations (details given in course description)
- Seminars and Lab courses may vary in topic and/or name from semester to semester, as most lecturers like to keep up-to-date with their research areas

#### Check out how to book seminars:

https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/booking-of-pro-seminars-incomputer-science

### **Study Project**

#### You have to do 1 study project

- You'll work (under a supervisor, but independently) on a current research topic in one of the workgroups / Chairs of the department
- See it as your "trial run" for the Thesis
- Has to be completed before you can register for your Thesis

Before you start with your Study Project, please check out the procedure of finding a topic, registering the project etc.:

https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/registering-for-projects (Same goes for the Thesis!)

### **Customized Course Selection** ("Individuelle Studiengestaltung")

- 18 ECTS (at least can be slightly surpassed)
- You have to do some courses from subjects outside of Computer Science
- Only SL (pass/fail) in courses outside CS (so, not counted into final grade)
- You can choose to replace application area courses amounting to 6 ECTS (at most) with
  - Either a language course
  - Or another Computer Science lecture (advanced or specialization), but in this case, the CS course will have an exam (PL) and count into the final grade!

### Available subjects to choose from

- Some subjects are integrated in the study planer in HISinOne, but not all of them. For those subjects not available for booking in the planner of studies, you'll have to organize things like registering for the courses and exams on your own (by contacting the lecturers, for example).
- See full list on program website:

### **Master Thesis**

- Master thesis (27 ECTS) graded
- Colloquium (= Presentation / Defense) (3 ECTS) graded
- Admission to thesis: at least 72 ECTS credits (including completed Study project) (plus conditional courses from admission, if applicable)
- Duration: 6 months

More information:

https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/thesis

# **Administrative things**



### Some practical advice and general facts

- Most courses are offered every other semester (i.e. once a year); some can be held more irregularly; should be mentioned in the module handbook (see HISinOne or PDF)
- Overlapping courses...

With the amount of courses and the flexible curriculum,

this just happens.

Basically: Find a way to deal with it!

(Meaning: Choose one course for this semester, do the other one in year; or check for lecture recordings, or...)

• Be aware that you might need to adapt your original study plan

### Some practical advice and general facts

- Usually no dependencies regarding order of courses
  - Nevertheless, check with lecturers for appropriate combinations or recommended order of courses
- Most prerequisites stated in the course catalog are recommendations, they are not mandatory; well, a few of them are...

Just read what is said in the description!

### **Conditional admission:** What does this mean?

- Conditions have to be fulfilled in addition to the normal Master's curriculum → likely to extend your study time
- You have to complete the required modules by the end of the second semester.
  - They should be your top priorities! (Especially in case of course collisions/overlaps)

- You will be automatically registered for these courses as well as exams.
   If you should decide not to take the exam in the intended semester (after the course), you have to contact the examination office to de-register.
- Exams required for conditional admission can only be repeated once.

### Advice for your next steps

- Study the course catalog / planner of studies (What courses are offered right now?)
- Generally, check out a few more courses than you intend to complete in the given semester
- Register (via HISinOne → "Booking of courses") for the courses you want to take as soon as possible
- Information on dates and deadlines for course booking: <u>https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates</u>
   → Booking deadlines for Bachelor and Master courses
- Read the official exam regulations!
  - (= terms and conditions of your study program)

https://www.tf.uni-freiburg.de/bilder/studium\_lehre/englische-poen/exam-regulations-msc-cs-po-2020

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### **Registering for/ Booking of courses**

- Have a look at your **Planner of studies** <u>https://campus.uni-freiburg.de</u>
- Follow instructions from short demonstration here
- If you have questions or made a mistake while booking: Contact Ms. Moses in the Dean's office:

moses@tf.uni-freiburg.de or myself
(Screenshots are really helpful)

# Be aware: Different course types have different deadlines!

(See <u>https://www.tf.uni-freiburg.de/en/studies-</u> and-teaching/calendar-dates

→ Booking deadlines and seat allocation for Bachelor and Master courses)

If you forgot to book a course:

- Contact the lecturer and ask if there are still seats available and if it generally makes sense to start late
- The examination office **can't** help you with this!

### HISinOne Demo: Login and Planner of Studies

#### • Log in to https://campus.uni-freiburg.de/

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Home My Studies Studies offered Organisation User information He You are here: Home > My Studies > Planner of studies with Module plan	elp			
Planner of studies with Module plan Master of Science, Informatik/Comp	uter Science, H	lauptfach, PO 202	0	() Help
Semester: winter semester 2022	Courses:	III 🞯	Exams, non-graded works:	
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Search in course catalog			<b>‡</b> ≣ Expa	nd all 🕂 🗄 Collapse all
Structure of examination regulations - All subject related semesters				Actions Status
I1LE13PO-MSc-679-2020 - Informatik / Computer Science, M.Sc., PO 2020				

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### HISinOne Demo: Planner of Studies – Different views

#### • Use the correct view: Examination regulations



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Albert-Ludwigs-Universität Freiburg | MSc Inf/CS Introduction October 12, 2023

### HISinOne Demo: Examination regulations structure

Structure of examination regulations - All subject related semesters	Actions	Status
I1LE13PO-MSc-679-2020 - Informatik / Computer Science, M.Sc., PO 2020	(g )	8
🗸 🗸 🗸 11LE13KT-9000-MSc-679-2020 - Master degree program Informatik / Computer Science, M.Sc. PO 2020 - 120.0 ECTS		
🥑 🛷 11LE13KT-8609-MSc-679-2020 - Preliminary average grade M.Sc. Informatik / Computer Science PO 2020		
🗸 🛷 11LE13KT-9991-MSc-679-2020 - ECTS credits account Master of Science in Informatik / Computer Science (PO-Version 2020) - 120.0 ECTS		
A 11LE13KT-8000-MSc-679-2020 - Master module - 30.0 ECTS		
> 🛷 11LE13KT-Weiterf Vorlesung - Advanced Lectures - 12.0 ECTS		
> 🛷 11LE13KT-Spez Vorlesung - Specialization Course - 36.0 ECTS		
> 🛷 11LE13KT-Seminare - Seminars - 6.0 ECTS		
> 🔗 11LE13KT-Praktikum - Lab Course - 6.0 ECTS		
🕨 🛷 11LE13KT-Indiv STG- WVorlesung - Advanced Lecture in Customized Course Selection - 6.0 ECTS		
> 🛷 11LE13KT-Indiv STG-SpezVorl - Specialization Course in Customized Course Selection - 6.0 ECTS		
> 🔗 11LE13KT-Sprachkurs - language course - 6.0 ECTS		
I1LE13KT-Indiv STG-FWB - Courses offered in other departments of the University		
> 🔗 11LE13KT-9140 - Study Project - 18.0 ECTS		

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### HISinOne Demo: Module – Courses – Assessments

IILE 13PO-MSc-679-2020 - Informatik / Computer Science, M.Sc. PO 2020         IILE 13KT-9000-MSc-679-2020 - Master degree program Informatik / Computer Science, M.Sc. PO 2020 - 120 0 ECTS         IILE 13KT-9000-MSc-679-2020 - Preliminary average grade M.Sc. Informatik / Computer Science PO 2020         IILE 13KT-9000-MSc-679-2020 - ECTS credits account Master of Science in Informatik / Computer Science (PO-Version 2020) - 120 0 ECTS         IILE 13KT-9000-MSc-679-2020 - ECTS credits account Master of Science in Informatik / Computer Science (PO-Version 2020) - 120 0 ECTS         IILE 13KT-9000-MSc-679-2020 - Master module - 30 0 ECTS         IILE 13KT-9000-MSc-679-2020 - Master module - 30 0 ECTS         IILE 13KT-9000-MSc-679-2020 - Master module - 30 0 ECTS         IILE 13KT-9000-MSc-679-2020 - Master module - 5 0 ECTS         IILE 13KT-9000-MSc-679-2020 - Majorithms. Theory - 1ecture course - 6 0 ECTS         IILE 13KI-2010 - Algorithms. Theory - 1ecture course - 6 0 ECTS         IILE 13KI-2010 - Algorithms. Theory - Exercises course (1018)         IILE 13KI-2010 - Algorithms. Theory - Exercises course (1018)         IILE 13KI-2010 - Algorithms. Theory - Exercises course (1018)         IILE 13KI-2010 - Algorithms. Theory - Exercises course (1018)         IILE 13KI-2010 - Algorithms. Theory - Exercises - excercise course (1018)         IILE 13KI-2010 - Algorithms. Theory - Exercises - excercise course (1018)         IILE 13KI-2010 - Algorithms. Theory - Exercises - excercise course (1018)         IILE 13KI-2010 - Algori	ucture of examination regulations - All subject related semesters	Actions	Status
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	A 11LE13MO-1153 PO 2020 - Machine Learning - 6.0 ECTS		
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	A 11LE13MO-2030_PO 2020 - Softwaretechnik / Software Engineering - 6.0 ECTS		

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### HISinOne Demo: Registration procedure for seminar, lab, project

 Check out how to book seminars and how to register for projects!

https://www.tf.uni-freiburg.de/en/studiesand-teaching/a-to-z-study-faq/bookingof-pro-seminars-in-computer-science

https://www.tf.uni-freiburg.de/en/studiesand-teaching/a-to-z-studyfaq/registering-for-projects

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V 11LE13KT-Seminare - Seminars - 6.0 ECTS	
🔫 ≰ <u>11LE13MO-Seminar 1 - Seminar 1</u> - 3.0 ECTS	
> n 11LE13VG-Seminar - VG Seminar 1 M ( <u>1 of 13</u> )	
CILE13SL-Seminar 1 - Seminar 1 Studienleistung	
11LE13PL-Seminar 1 - Seminar 1 Prüfung - 3.0 ECTS	
11LE13MO-Seminar 2 - Seminar 2 - 3.0 ECTS	
🛶 🌱 🛷 11LE13KT-Praktikum - Lab Course - 6.0 ECTS	
✓ ★ 11LE13MO-7110 PO 2020 - Praktikum - 6.0 ECTS	
Main 11LE13VG-7110 Praktikum - Praktikum Informatik (1 of 26)	
11LE13SL-7110-1 - Praktikum Informatik 1 - Studienleistung - 6.0 ECTS	
🜱 🛷 11LE13KT-9140 - Study Project - 18.0 ECTS	
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Y 🛊 11LE13MO-9140 Studienprojekt Allgemein - Studienprojekt - 18.0 ECTS	
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<ul> <li>W 11LE13SL-9140 Studienprojekt Allgemein - Studienprojekt - Studienleistung</li> </ul>	
11LE13PL-9140 - Studienprojekt - Prüfungsleistung - 18.0 ECTS (1 of 2)	
> 🛷 11LE13KT-Studienprojekt-KI - Studienprojekt im Bereich KI - 18.0 ECTS	
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M 11LE13KT-Studienprojekt-CPS - Studienprojekt im Bereich CPS - 18.0 ECTS

### HISinOne Demo: Customized Course Selection

>	11LE13KT-Indiv STG- WVorlesung - Advanced Lecture in Customized Course Selection - 6.0 ECTS
>	11LE13KT-Indiv STG-SpezVorl - Specialization Course in Customized Course Selection - 6.0 ECTS
>	11LE13KT-Sprachkurs - language course - 6.0 ECTS
Y	Ø 11LE13KT-Indiv STG-FWB - Courses offered in other departments of the University
	> Ø11LE13KT-FWB - Applied Bioinformatics
	👌 🔗 11LE13KT-FWB-Mathematik - Mathematik
	🔰 🔗 11LE13KT-FWB Medizin - Medizin
	> Ø 11LE13KT-FWB-MST - Microsystems Engineering
	I1LE13KT-FWB Neuroscience - Neuroscience
	🔰 🛷 11LE13KT-FWB-Physik - Physik
	> Ø11LE13KT-FWB-WiWi - Economics
	3 11LE13KT-FWB - Weitere genehmigte Module/Veranstaltungen im fachfremden Bereich

11LE13KT-9140 - Study Project - 18.0 ECTS

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### HISinOne Demo: Multi-connected Elements

#### Green and red arrows? Don't panic!



### HISinOne Demo: Multi-connected Elements

#### • The module shows up at the end of the list:



# **Rules regarding examinations**

More details will be offered by the examination office team in a presentation in a few weeks. You'll receive an invitation e-mail in time...

### **Registration for exams / graded assessments (PL)**

- 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
   <a href="https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/examinations">https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/examinations</a>

   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
  - $\rightarrow$  My studies  $\rightarrow$  My course enrollments and exam registrations

### How to proceed if you failed an exam

- Number of attempts are limited:
  - 2 attempts for every exam / graded assessment (if needed)
  - 2 oral or written exams for CS lectures can be attempted 3 times (This rule does not include lab courses, seminars or the project!)
- You are registered automatically for the repetitison(s) and cannot sign off !
- Repetition exam will take place in the next semester.
- You can replace one Advanced lecture or Specialization course you failed the exam / graded assessment with another one, but it has to be done after the first failed attempt. So: *Either repeat or replace (once).*

### Improvement of a grade

- Repeating an exam that you have passed, to improve your mark, is possible in one module you did in your first year of studies here
- This rule applies only to written or oral exam of a Computer Science lecture + exercise
- You have to take the "repetition" exam directly in the following semester
- The examination with the **better** grade will be considered official

### Missing an exam: Unexcused or authorized withdrawels

- If you do not attend an exam that you registered for, it counts as failed, unless you have a valid excuse.
- Valid excuses can be
  - Due to illness
    - $\rightarrow$  Doctor's note required, see

https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq

Due to emergencies in family etc.
 (please contact examination office immediately)

### Intellectual honesty / plagiarism

- Plagiarism is:
  - Using someone else's texts, pictures, reports, data, solutions, whatever....
  - ... without citing the source
- Sources include:
  - Books, the internet, colleagues, ...
- To make it clear: Plagiarism is illegal! It is cheating!

- The simple "if...then" loop:
  - If you cheat (once)
     → then you fail the course
  - If you cheat repeatedly (twice)
     → then you are thrown out of the program and your academic career is over
- Intellectual honesty is important! Don't pass off someone else's work as your own!

# Finding information and help

### Students are responsible to stay informed

- You are independent persons, expected to self-organize and self-motivate. There is no service establishment catering to all your needs.
- We provide the necessary information through different sources:
  - Websites
  - Introductory events
  - Official documents (like exam regulations)
  - Information e-mails



(Make sure to have access to your faculty user account and forward or use that e-mail address!)

- Reading is essential! Please read! The whole text, all the lines in an email, the complete instructions in exercise or exam sheet...
- "I did not know!" is not an acceptable excuse!

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### **Check out the information on our websites**

• For new students:

https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/freshers-info

• Dates and deadlines:

https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates

 A to Z – Study FAQs (especially useful for information about examination related things):

https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq

- Website for your study program
   <u>https://www.tf.uni-freiburg.de/en/study-programs/computer-science/m-sc-computer-science</u>
- Contacts for advisory services at TF etc.:

https://www.tf.uni-freiburg.de/en/study-programs/counseling

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### Further contact points outside TF:

- SWFR (Housing, Financial Aid / Bafög, Social and Psychotherapeutic Counselling...)
- Student Service Center (SCS) in Sedanstraße 6



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### Whom to ask about what?

#### Programme related matters

#### **Lecturers/ Professors**

e.g. thematic questions, literature and learning material etc.

#### General matters

# International Admissions and Services (in SCS)

e.g. advice for international students, preliminary certification by the university, issue of certificates for international students, questions about leave of absence and tuition fees etc.

 $\rightarrow$  www.ias.uni-freiburg.de

#### **Study coordinators**

e.g. study planning, decisions, setting priorities, examination regulations, credits etc.

#### **Central Academic Advising (in SCS)**

e.g. motivation, reorientation, decision-making, learning process, study organisation, stress, crises etc.

confidential, anonymous if necessary, neutral

 If needed, referral to other contact persons (representative for students with chronic illness/disability, employment agency etc.)

 $\rightarrow$  www.zsb.uni-freiburg.de

# When writing an e-mail to an advisor or the examination office...

- Please use a sensible subject
- Assume we do not know you, and we are not clairvoyant.
   So, please sign the email with your full name; your matriculation number can also be helpful, and it would be great if you mention your study program...
- Use full names of professors, supervisors or lecturers (we are not on first name base with everyone at the faculty)
- For a question about a new topic: Write a new mail and address it (correctly) yourself. Don't "answer" to older information mails from us.
- If it is urgent, indicate this in the subject line! Our responses to mails not classified as urgent can take quite a while and we try to prioritize.

### **Checklist of important things to remember:**

- Set up your Faculty account correctly; forward those emails!
- Learn about and observe the various deadlines: https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates
- Register for *all the elements (especially all the assessments)* in a module you want to complete (not just in lectures, but also in seminars or lab courses)
- Know your exam regulations!
- Learn about registration for seminars and projects: https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq
- Re-enroll for the next semester

https://www.studium.uni-freiburg.de/en/student-services/registration

• Contact someone when in need of help:

https://www.tf.uni-freiburg.de/en/study-programs/counseling

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# Have a good start!

And remember to meet your Campus tour guide 4:30 p.m. in front of this lecture hall!