



Master of Science Embedded Systems Engineering

Faculty of Engineering
University of Freiburg

Albert-Ludwigs-Universität Freiburg

UNI
FREIBURG



Who am I?



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Changes are announced here:

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

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I'll show you...

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



PART 1

SYLLABUS / STUDY PLAN



The Master program ESE is...

- generally an international study program
 - Most courses are offered in English
 - But some elective courses in German only
- a mixture of compulsory courses (to build a common ground for the students) and electives
- flexible: The study plan provides the frame, which you fill up with courses (→ when you do them is up to you)
- Customizable: A big variety of elective courses in Concentration areas and Personal Profile allow for individual specialization



Upcoming: New exam regulations with even more flexible syllabus

- New version of exam regulations with new syllabus starting in winter semester 2021/22
- Don't get too set on the current curriculum, as we expect you to switch to the new version
- **Details will follow this semester**
(Examples for study plans, English translation of exam regulation, information on the procedure to switch to new curriculum etc.)
- Important to know now: Every course you take now will still exist in the new regulations



Module types/Courses in the ESE program

- **Module Components / Courses**
 - Lectures – German: Vorlesung (V)
 - Exercises – German: Übung (Ü)
 - Lab courses – German: Praktikum / Praktische Übung (Pr)
 - Seminars – German: Seminar (S)
 - Projects – German: Projekt (*also* Pr)



Graded assessments or pass/fail

- **Coursework or pass/fail assessments** (“**Studienleistungen**”, **SL**)
 - Exercises, reports, (mid-term) exams...
 - May be part of a module (for example the exercise sheets, then it's called **coursework**) or the overall assessment to complete a course successfully (=pass or fail assessment; can be an end-of-term exam, even)
*(in German both is called “**Studienleistung**”...)*
 - May be graded, or only “pass” or “fail”
 - Not part of the final grade
- **Graded assessments / Exams** (“**Prüfungsleistungen**”, **PL**)
 - Written or oral exams, reports, presentations, creation of software or demonstrators
 - Strict rules/regulations and very limited number of attempts
 - Always graded and always counts into the final grade



Structure of the study program (when starting in summer term)

Module / Area	Semester	ECTS credits
Kursvorlesung Informatik („advanced lecture“)	1 or 2	6
Kurs- or Spezialvorlesung Informatik	1 or 2	6
Assembly and Packaging Technology (English) / Aufbau- und Verbindungstechnik (German)	1 / 2	5
Sensorik und Aktorik (German) / Sensors (English)	2	5
Cyber Physical Systems – Discrete Models	2	6
Microelectronics	2	5
Modelling and system identification	2	6
Concentrations area 1	1, 2 or 3	At least 15
Concentrations area 2	1, 2 or 3	At least 15
Personal Profile	1, 2 or 3	At least 15
Master thesis + Presentation	4	27 + 3
Overall		120

At least
51
overall



Mandatory Courses

5 specific courses

- CPS – Discrete Models
- Sensors
- Assembly and Packaging Technology
- Micro electronics
- Modelling and system identification

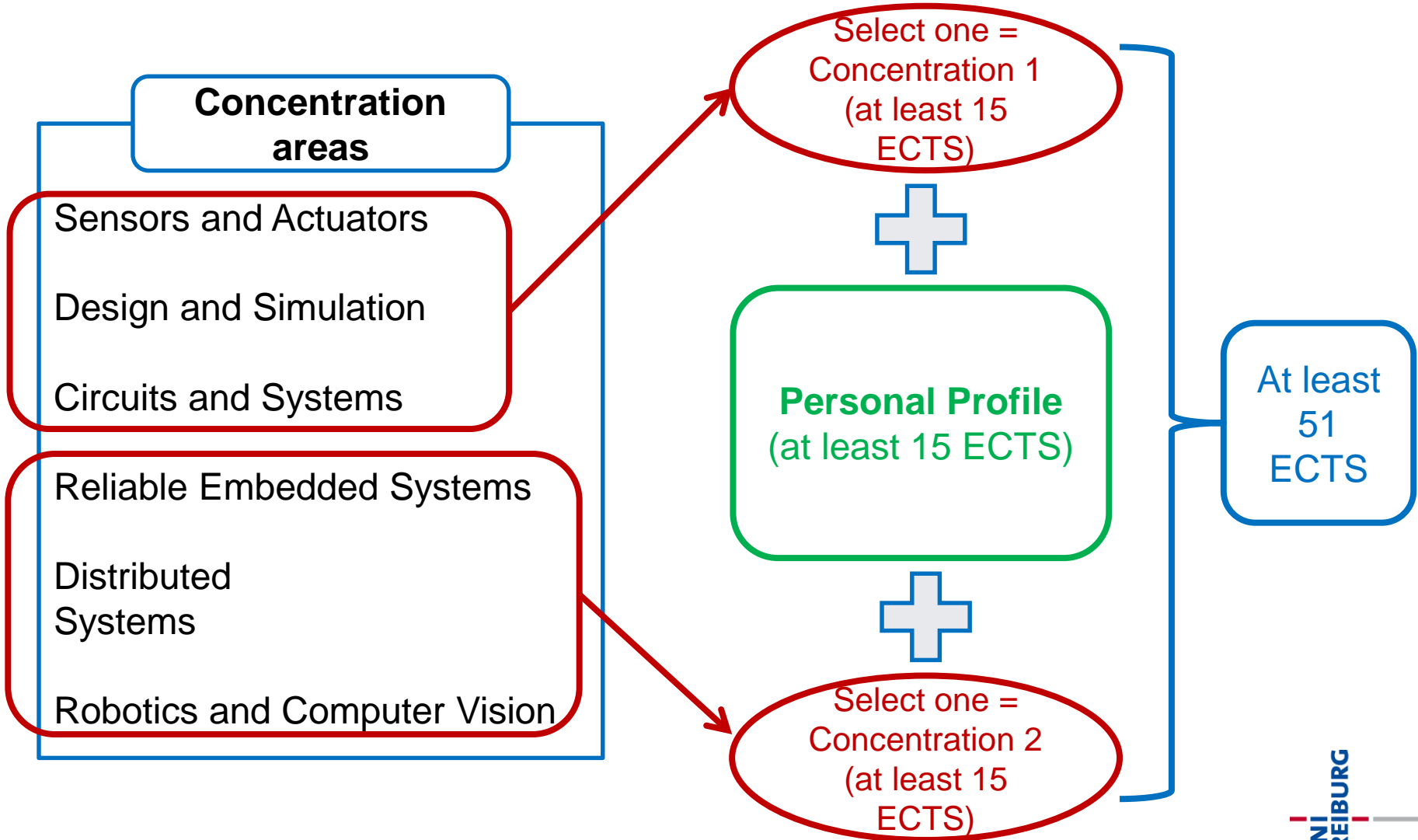
Plus

- **1 advanced lecture** (“Kursvorlesungen“) in CS
- **1 advanced lecture** *or* **Specialization course** in CS

- Big selection of **specialization courses from CS**
- Lots of them and the courses from MSE can be found in one or the other **concentrations area**
- All of them can also be chosen in your **personal profile**
- Keep this in mind when registering for a course in HISinOne



Regarding the elective areas: a general overview





Concentrations and Personal Profile: Which and how many courses to choose?

- Choose two concentration areas (one from each group) and do courses ≥ 15 credits
- In your Personal Profile select courses ≥ 15 credits from all **lectures, seminars or lab courses** from the Master's programs for
 - MSE / MST
 - Computer Science@ the Faculty of Engineering
- You may take as many courses as you need to fulfill the constraints, but no more (additional)!
- You may take at most 2 seminars overall; the number of lab courses is not limited
- Study Project (from Computer Science, 18 ECTS) only available in Personal Profile
- There is a video tutorial explaining the booking procedure for seminars. Please check that out if you have questions about this topic.

Please note:
Not from the
SSE program!



PART 2

ADMINISTRATIVE THINGS



Some practical advice, general facts and recommendations

- 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)
- Overlapping courses... With the amount of courses and the flexible curriculum we offer, this just happens. Basically: Deal with it!
(Meaning: Choose one course for this semester, do the other one in year)
- Be aware that you might need to adapt your original study plan



Some practical advice, general facts and recommendations

- 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; but some 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**, but have to **register for the exams yourself**
 - Registration for these exams has to be done via PDF form: <https://www.tf.uni-freiburg.de/de/studium-lehre/a-bis-z-studium/dokumente/Examregistration.pdf>
- **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:
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates>
→ Booking deadlines for Bachelor and Master courses
- **Read the official exam regulations!**
(= *terms and conditions of your study program*)



Registering for/ booking of courses

- Have a look at your *planner of studies*
<https://campus.uni-freiburg.de>
- For information on handling the Campus-Management-System, **watch the tutorial/instruction video:**
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/information-for-new-students-summer-semester>
 - Further information and tutorials
 - MSc ESE - Course booking in HISinOne (English)
- If you have questions or made a mistake while booking:
Contact us! (Ms. Moses in the Dean's office:
moses@tf.uni-freiburg.de or myself)
(Hint: Screenshots are really helpful for us!)



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

Be aware:

Different course types have different deadlines!

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!
- *Please note: Registration for an exam in HISinOne can be confusing if you did not book the course beforehand!*



PART 3

RULES FOR EXAMINATIONS



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 <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 attempts are limited:
 - 2 attempts for every exam / graded assessment (if needed)
 - **In the new regulations, 2 oral or written exams can be attempted 3 times**
- You are registered automatically for the repetition(s) and **cannot sign off** !
- Repetition exam will take place in the next semester.
- **In the new regulations, you can substitute 1 course** you failed the exam / graded assessment with another one (but it has to be done after the first attempt)



Improvement of a grade

- In the **upcoming new regulations**, you can improve the grade of **1 exam** overall, that you did in your first year
- This rule applies only to written or oral (not other kinds like homework or presentations)
- You have to take the „repetition“ exam **directly in the following semester**
- The examination with the better grade will be considered official
- *Not all study programs have this option!*



Missing an exam: unexcused or authorized withdrawals

- 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 (→ doctor's note, use form „Application for Exam Withdrawal Approval Due to Illness”, 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)
 - Special circumstances due to the Coronavirus pandemic situation



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!
- The simple „if...then“ loop:
 - If you plagiarize (once)
→ then you fail the course
 - If you plagiarize repeatedly (twice)
→ then you are thrown out of the program
and your academic career is over
- Intellectual honesty is important!

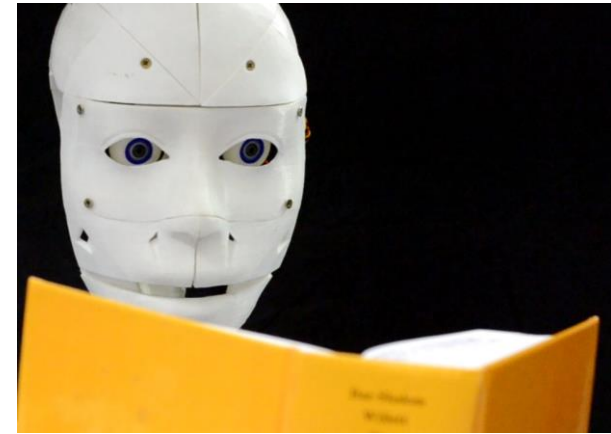


Image Source: TF



PART 4

FINDING INFORMATION

AND HELP



Students are responsible to stay informed

- 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!)
- Students are expected to look for the information proactively
- *„I did not know!“ is not accepted as a valid excuse!*



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>
- Program-Website:
<https://www.tf.uni-freiburg.de/en/study-programs/embedded-systems-engineering/m-sc-embedded-systems-engineering>
- Information for new students - summer semester
<https://www.tf.uni-freiburg.de/en/studies-and-teaching/a-to-z-study-faq/information-for-new-students-summer-semester>



Problems with your studies?

- If you have any questions or problems:
Act immediately and do not wait for the problem to disappear miraculously!
- Contacts & info sources:
 - Official information sources by university, faculty and study program (legal texts, websites)
 - Study advisors
 - Mentors
 - Lecturers / assistants (face-to-face or via e-mail)
 - Fachschaft TF (student committee of this faculty)
 - Information centers like the Student Service Center, Office of Student Services etc.
 - fellow students
- Contact information for advisory services at TF:
<https://www.tf.uni-freiburg.de/en/study-programs/counseling>

If you don't find the information, maybe try a search engine...



When writing a mail to an advisor or the examination office...

- Sensible subject
- Use a greeting / salutation – we are not chat bots...
- Sign the email with your full name; your matriculation number is usually also helpful
- Use full names of professors, supervisors or lecturers (not only the first name)
- For a new topic: Write your own new mail and address it (correctly) yourself



Advising@Service Center Studium: ZSB / IAS @ SCS

Information



Clearing / first information

- Where to go to ...?
- Whom to talk to if...?
- How do I...?
- daily info desk

Hotline

0761 / 203-4246

Advising



...on any topic concerning
your studies

- confidential
- impartial
- professional
- open and scheduled
consultation hours

Workshops



Smalls groups (mostly in
German), topics such as:

- Doubts / hard choices
- Dealing with (study)
stress
- Time and self-
management
- Masters degree or job
search?

www.zsb.uni-freiburg.de

www.ias.uni-freiburg.de



Where to get software you might need for your courses?

- The Computing Center (*Rechenzentrum*) offers lots of software and licenses like MATLAB, Mathematica or LabView:
<https://www.rz.uni-freiburg.de/services/beschaffung/software>
- For questions please contact
lizenzen@rz.uni-freiburg.de