

Master of Science Embedded Systems Engineering Administrative Stuff

Martina Nopper, Academic Advisor October 15th 2019

Albert-Ludwigs-Universität Freiburg





I am ...

- Martina Nopper (Dipl.Inf.)
 Academic Advisor for Computer Science and ESE
 - Phone: +49 761 203 8169
 - Office: Building 101 02 013a (same as Ms. Epe) (→ corridor "Prüfungsamt")
 - Consulting hours:
 Monday + Wednesday 2 p.m. 4 p.m.
 Tuesday + Thursday 10 a.m. 12 noon

My counterpart in the MSE Department:

- Frank Goldschmidtböing
 - Phone: +49 (0) 761 / 203 7496
 - Building102, room 01 075
- Mail: <u>studienberatung@ese.uni-freiburg.de</u>





I would like to show you...

- how to organize your studies / build your own study plan
- some administrative advice
- (limited to a bare minimum) some important rules regarding exams
- where you can get information and help





Important announcement:

Introduction on exam rules etc. from the exmination office team:

Wednesday, November 13th, 1:00 – 2:00 p.m. Lecture Hall 101 00 036

You will be reminded via mail, as will be done with other important information here at the faculty, so make sure your contact data in myAccount or HISinOne is correct!





Module types in the ESE program

Module Components

- Lectures German: Vorlesung (V)
- Exercises German: Übung (Ü)
- Laboratories German: Praktische Übung (PrÜ)
- Seminars German: Seminar (S)

Pass/fail assessments ("Studienleistungen")

- Exercises, reports, mid-term exams...
- Are not part of your final grade, but may be part of a module (for example the exercise sheets)
- Are not always graded (maybe only "pass" or "fail")
 but if so, the mark is shown in the transcript

Graded assessments ("Prüfungsleistungen")

- Written or oral exams, reports, presentations...
- Are always graded and count into the final grade





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

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

At least 51 overall

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Mandatory Courses

5 specific courses

- Cyber Physical Systems Discrete Models (Engl.)
- Sensorik und Aktorik (Ger.) / Sensors (Engl.)
- Aufbau- und Verbindungstechnik (Ger.) / Assembly and Packaging Technology (Engl.)
- Micro electronics (Engl.)
- Modelling and system identification (Engl.) (=Modellbildung und Systemidentifikation)

Plus

- One out of six so-called Key courses (Kursvorlesungen) in Computer Science
- One other Key course or one Specialization course in Computer Science





Mandatory courses: 1. key course

You have to choose one of the 6 Key courses (*Kursvorlesungen*) in Computer Science:

- Key courses offered in summer semester:
 - Computer Architecture / Rechnerarchitektur (annually switching languages; SS2020 = German)
 - Software Engineering / Softwaretechnik (annually switching languages; SS2020 = English)
 - Foundations of Artificial Intelligence / Grundlagen der Künstlichen Intelligenz (always in English)
- Key courses offered in winter semester:
 - Image Processing and Computer Graphics / Bildverarbeitung und Computergrafik (always in English)
 - Algorithm Theory / Algorithmentheorie (always in English)
 - Databases and Information Systems / Datenbanken und Informationssysteme (always in German)





Mandatory courses: 2. course (key or specialization)

And you have to take

- Either a second key course
- Or one specialization course from Computer Science

There is a big selection of specialization courses. Some of them can also be found in the respective concentrations areas, and all of them can also be chosen in your personal profile.

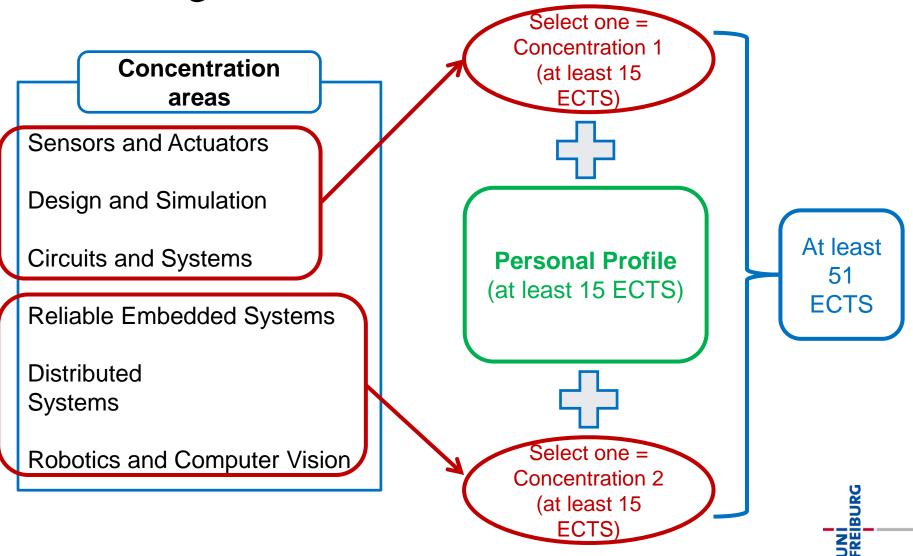
So please think about the category you want to put the course into, when registering for it in HISinOne.





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 or
 - Computer Science
 - MST@ the Faculty of Engineering
- You may take as many courses as you need to fullfill the constraints, but no more (additional)!
- You may take at most 2 seminars overall; the number of lab courses is not limited.

Please note: **Not** from the SSE program





Conditional admission — What does this mean for me?

- Conditional courses have to be fulfilled in addition to the regular Master's curriculum
 ikely to extend the time you need to graduate
- You have to complete the required modules by the end of the second semester.
 They should be your top priorities!
- 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





Conditional admission — What does this mean for me?

- It is not sufficient to take the exam, you have to attend the course.
- If the lecturer requires any exercises or midterm 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!





Tips for your first week

- Read the official exam regulations!
 (= terms and conditions of your study program)
- Study the online course catalog (What is offered now? What belongs to which specialization area?)
- Check out a few more courses in the beginning than you intend to complete at the end of the semester
- Most prerequisites stated in the course catalog are recommendations; the few mandatory ones are clearly stated
- 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
- Please observe the registration deadlines!
 See https://www.tf.uni-freiburg.de/en/studies-and-teaching/calendar-dates
 - → Booking deadlines (and seat allocation) for Bachelor and Master courses





Problems with your studies?

- If you have any questions or problems:
 Act immediately and do not procrastinate!
- Contacts & info sources:
 - Official information sources by university, faculty and study program (exam regulations, websites)
 - academic advising
 - Lecturers / assistants /mentors (face-to-face or via e-mail)

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

- Fachschaft TF (student committee here at the faculty)
- Information centers like the Student Service Center, Office of Student Services etc.
- fellow students





Registering for/booking of courses

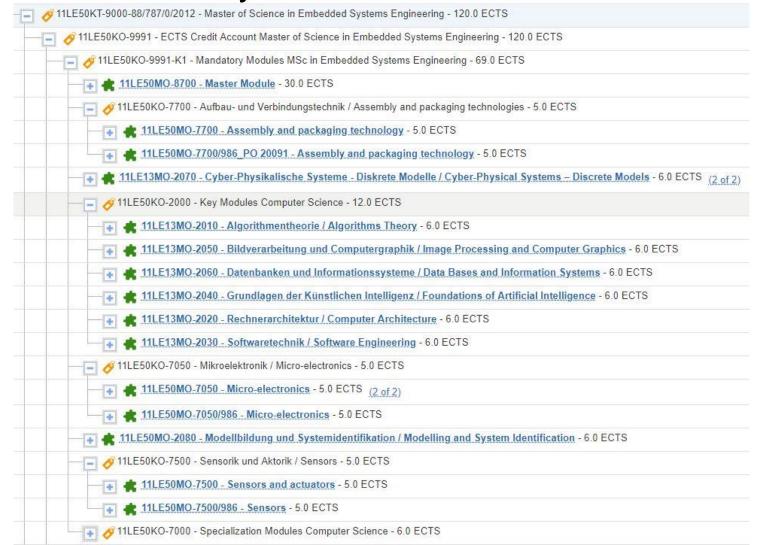
- Have a look at the course catalogue:
 - https://campus.uni-freiburg.de
 - → Studies offered → Show university course catalog → Technische Fakultät → Master of Science (M.Sc.)
 - → Embedded Systems Engineering (ESE), PO 2012
- For information on handling the Campus-Management-System see https://www.tf.uni-freiburg.de/en/studies-and-teaching/teaching/course-booking or use the extensive wiki of HISinOne → Help → Guide for students
- If you have questions or made a mistake while registering:
 - Contact us!

(Ms. Moses in the Dean's office: moses@tf.uni-freiburg.de or myself) (Screenshots might be helpful for us!)



Some impressions from the study planer (HISinOne)

Mandatory area:





Some impressions from the study planer (HISinOne)

Personal Profile – MSE:

- N	11LE50KO-5800-K1 - Concentration Modules Microsystems Engineering
-	★ 11LE50MO-5606-1 - Oberflächenanalyse / Surface Analysis - 3.0 ECTS
+	* 11LE13MO-1340 - Galaxy training course for life science high-throughput data analysis - 6.0 ECTS
+	* 11LE50MO-5303 - Ausgewählte Problemstellungen in Biosignalverarbeitung / Selected Problems in Biosignal Processing - 3.0 ECTS
+	11LE68MO-9010b - Power Electronic Circuits and Devices - 5.0 ECTS (2 of 2)
+	★ 11LE50MO-5321 - Bioaktive Polymeroberflächen / Bioactive Polymer Surfaces - 3.0 ECTS
+	★ 11LE50MO-5322 - Bioaktive Polymeroberflächen / Bioactive Polymer Surfaces - 5.0 ECTS
+	* 11LE50MO-5401-1 - Biobrennstoffzelle und Bioelektrochemische Systeme / Biofuel Cells and Bioelectrochemical Systems - 3.0 ECT
+	# 11LE50MO-5125 - Bioinspirierte Funktionsmaterialien / Bioinspired functional materials - 3.0 ECTS
+	# 11LE50MO-780 - Biology for Engineers - 3.0 ECTS (1 of 1)
+	11LE50MO-7900 - Biomedical Microsystems - 5.0 ECTS
+	# 11LE50MO-5701 - Bionische Sensoren / Bionic Sensors - 3.0 ECTS (1 of 1)

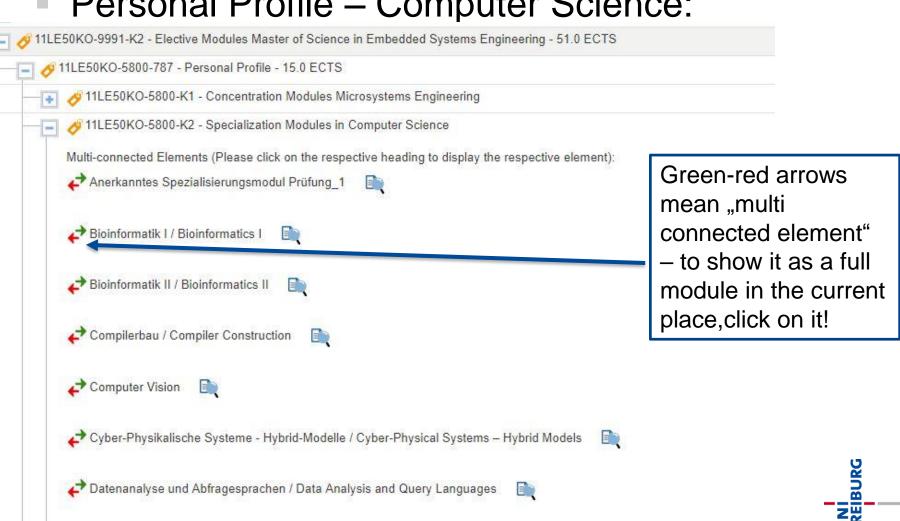




Some impressions from the study planer (HISinOne)

Personal Profile – Computer Science:

Drahtlose Sensornetze / Wireless Sensor Networks





Some impressions from the study planer (HISinOne)

Personal Profile – Computer Science part 2:

•	11LE50KO-5800-K1 - Concentration Modules Microsystems Engineering
]	11LE50KO-5800-K2 - Specialization Modules in Computer Science
	₫ 11LE50KO-5800-K3 - Seminar / Seminars Computer Science
1	* 11LE13MO-7300-S1 - Seminar in Robotics and Computer Vision - 4.0 ECTS
	* 11LE13MO-7300-S2 - Seminar in Robotics and Computer Vision - 4.0 ECTS
	* 11LE13MO-7200-S1 - Seminar in Distributed Systems - 4.0 ECTS
	■ 11LE13MO-7200-S2 - Seminar in Distributed Systems - 4.0 ECTS
	* 11LE13MO-7100-S1 - Seminar in Reliability Embedded Systems - 4.0 ECTS
	* 11LE13MO-7100-S2 - Seminar in Reliability Embedded Systems - 4.0 ECTS
	11LE50KO-5800-K4 - Laboratory / Laboratories Computer Science
	* 11LE13MO-7300-P1 - Laboratory in Robotics and Computer Vision - 6.0 ECTS
-	* 11LE13MO-7300-P2 - Laboratory in Robotics and Computer Vision - 6.0 ECTS
	* 11LE13MO-7300-P3 - Laboratory in Robotics and Computer Vision - 6.0 ECTS
-	* 11LE13MO-7200-P1 - Laboratory in Distributed Systems - 6.0 ECTS
	■ 11LE13MO-7200-P2 - Laboratory in Distributed Systems - 6.0 ECTS
	* 11LE13MO-7100-P1 - Laboratory in Reliable Embedded Systems - 6.0 ECTS
	11LE13MO-7100-P2 - Laboratory in Reliable Embedded Systems - 6.0 ECTS





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 difficult if you did not register for the course!





Examination rules and regulations

- As announced at the start of this presentation:
 The introduction on exam rules etc. from the exmination office team will take place on Wednesday, November 13th, 1 2 p.m.
- Please attand that meeting! It's important!

Today, I'll keep it short and only mention the minimum...





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

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How to proceed if you failed an exam

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





Improvement of a grade

- Possible for your study program in 2 courses.
 (Not all study programs have this possibility!)
- It has to be done in the following semester (i.e. repeating the exam).
- To register for an improvement, you have to contact the examination office; it can't be done in HISinOne.
- This rule excludes lab courses or seminars.





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 (→ 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)



15.10.2019 Master ESE - Martina Nopper 28



Information via Internet

Some useful links:

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





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.unifreiburg.de/services/beschaffung/software

 For questions you may contact lizenzen@rz.uni-freiburg.de

