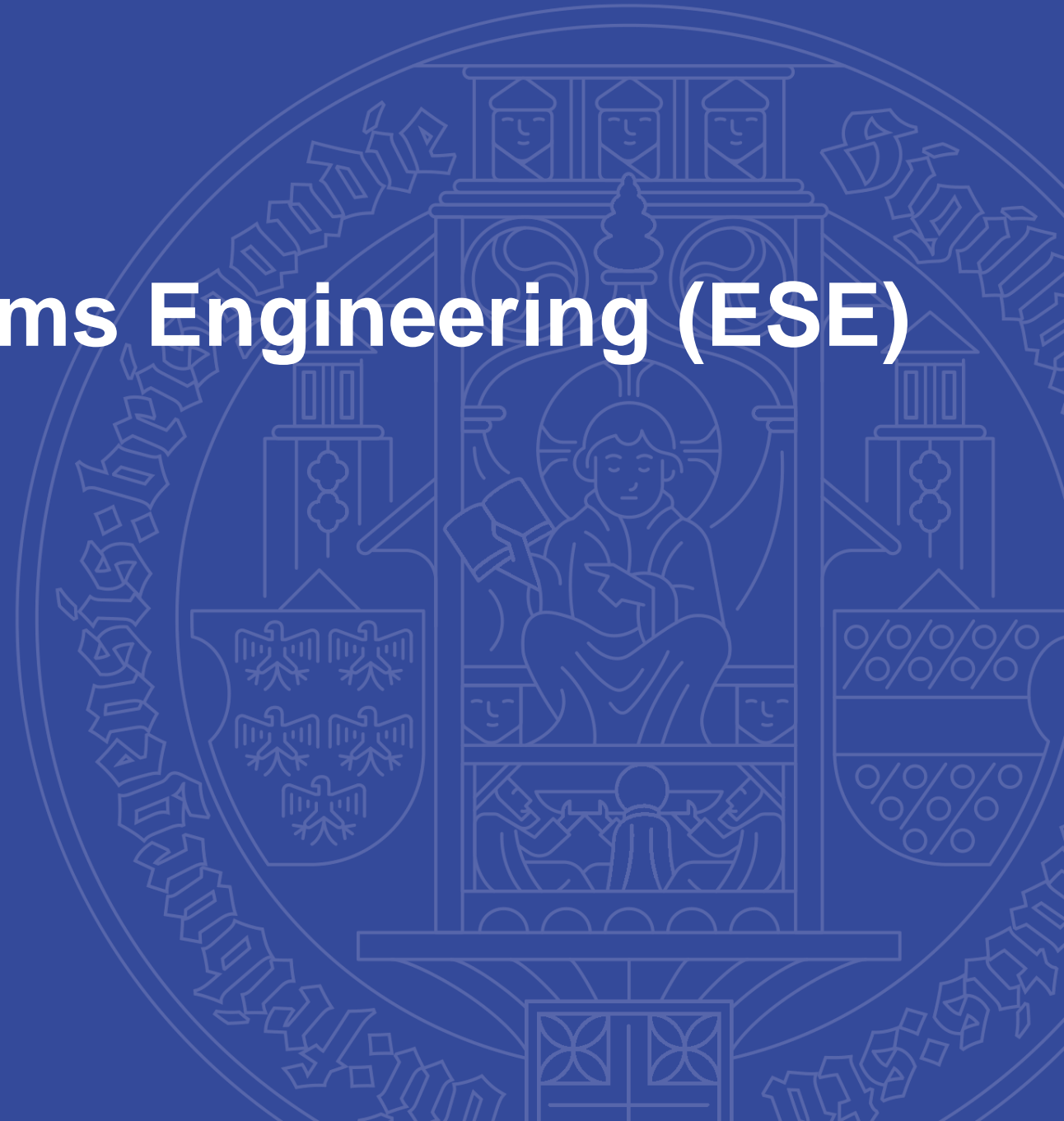# M.Sc. Embedded Systems Engineering (ESE)

Administrative information

Faculty of Engineering
University of Freiburg
April 17, 2025

Welcome to the Faculty of Engineering

Studierende | Köpfe

Fakultät
Technische Fakultät

Aktuelle Zahlen | WS 2024/25

WS 2024/25
2.620
Studierende gesamt
▲ 1,91% zum WS 2023/24

weiblich — **−22%** | 581
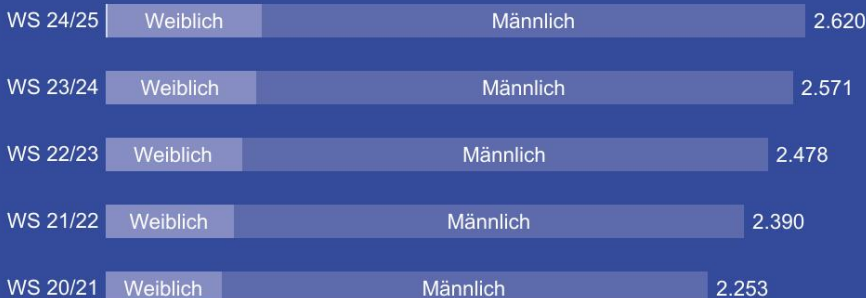2.033 | **78%** −
6 Stud. unbekannt/divers
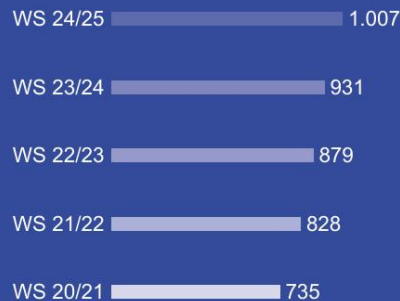männlich

38%
Internationale Studierende

WS 2024/25
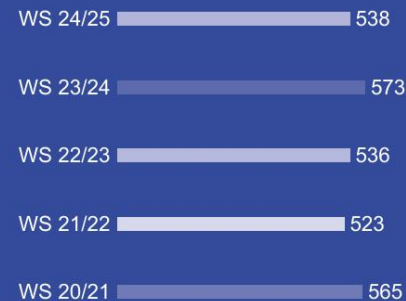**538**
Studienanfänger*innen
▼ -6,11% zum WS 2023/24

Polyv. 2 HF BA 30
Master 1.184
Bachelor 1.172
WS 2024/25

Entwicklung der Studierendenzahlen

	Weiblich / Männlich	Gesamt
WS 24/25	Weiblich / Männlich	2.620
WS 23/24	Weiblich / Männlich	2.571
WS 22/23	Weiblich / Männlich	2.478
WS 21/22	Weiblich / Männlich	2.390
WS 20/21	Weiblich / Männlich	2.253

Internationale Studierende

WS 24/25	1.007
WS 23/24	931
WS 22/23	879
WS 21/22	828
WS 20/21	735

Studienanfänger*innen

WS 24/25	538
WS 23/24	573
WS 22/23	536
WS 21/22	523
WS 20/21	565

Studierende nach Staatsangehörigkeit

© 2025 Mapbox © OpenStreetMap

Datenstand: **10. April 2025** | D1.2 Controlling und Informationsmanagement

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Embedded Systems at the Faculty of Engineering

- 21 Laboratories at IMTEK, 18 Chairs/research groups at IIF
- Embedded Systems Engineering (ESE) touches all of our core competencies
- Cooperation of professors and lecturers from the departments of Computer Science (CS), Microsystems Engineering (MSE) and Sustainable Systems Engineering (SSE), as well as external experts
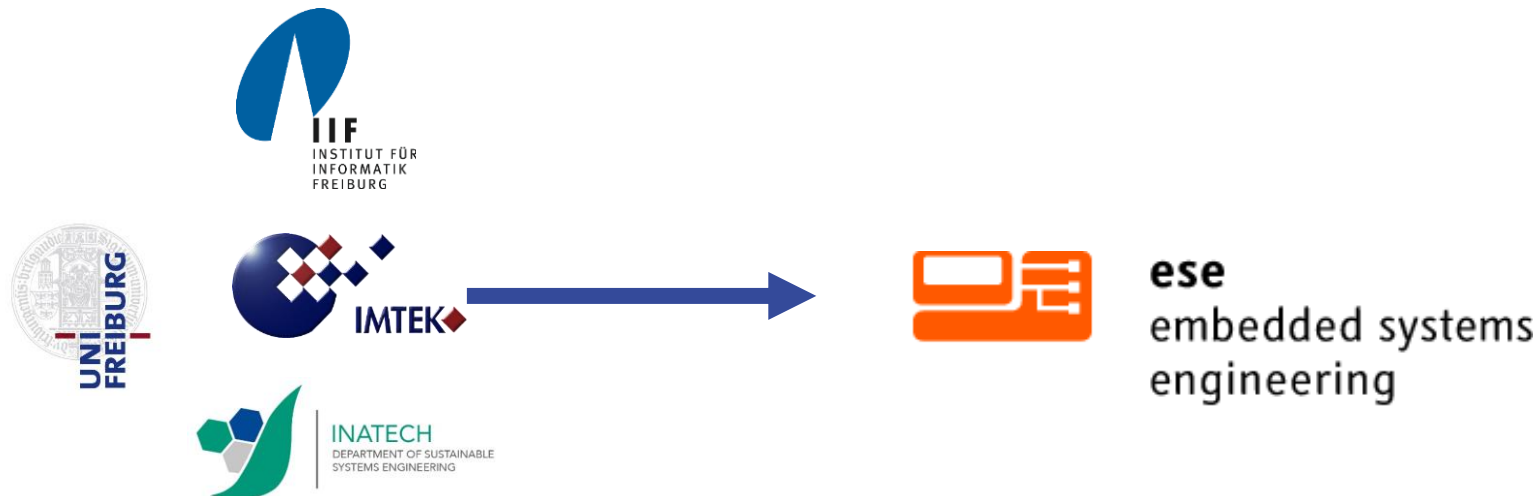
Embedded Systems and where to find them

- Automotive engineering
- Bio/Medical technology
- Smart homes
- Telecommunications
- Media and consumer electronics
- Controlling and regulation in manufacturing processes
- Aerospace …
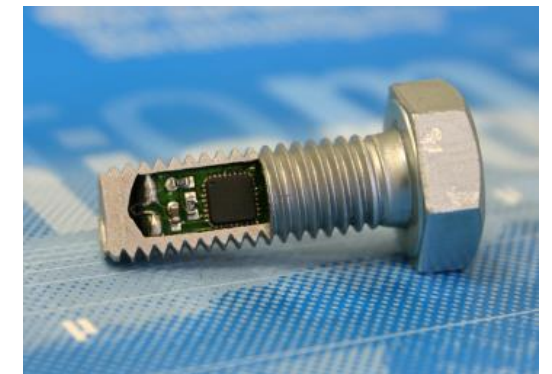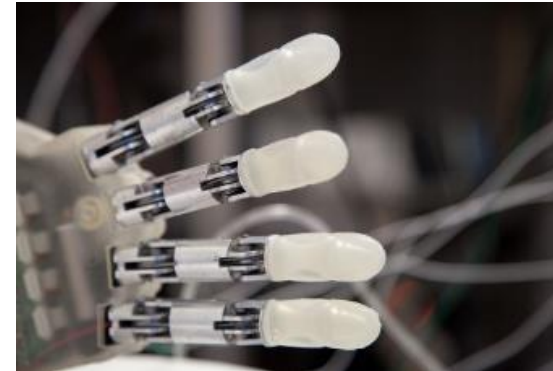
Programme coordinator and study advisors

- Martina Nopper (Dipl.Inf.)
- Study Advisor for Computer Science and ESE
- Phone: +49 761 203 8169

  Phone Consulting hours: Monday 1:30 – 4 p.m. + Thursday 9:00 – 11:30 a.m.
  More information about consulting (and changes to consulting hours) see here:
  https://www.tf.uni-freiburg.de/en/study-programs/counseling

Counterpart in the MSE Department:

- Frank Goldschmidtböing
- Phone: +49 (0) 761 / 203 – 7496

Mail (*shared!*): studienberatung@ese.uni-freiburg.de

Today I'll show you…

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

Vocabulary you should know… part 1

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 programme :

- 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 (just might have to be repeated)
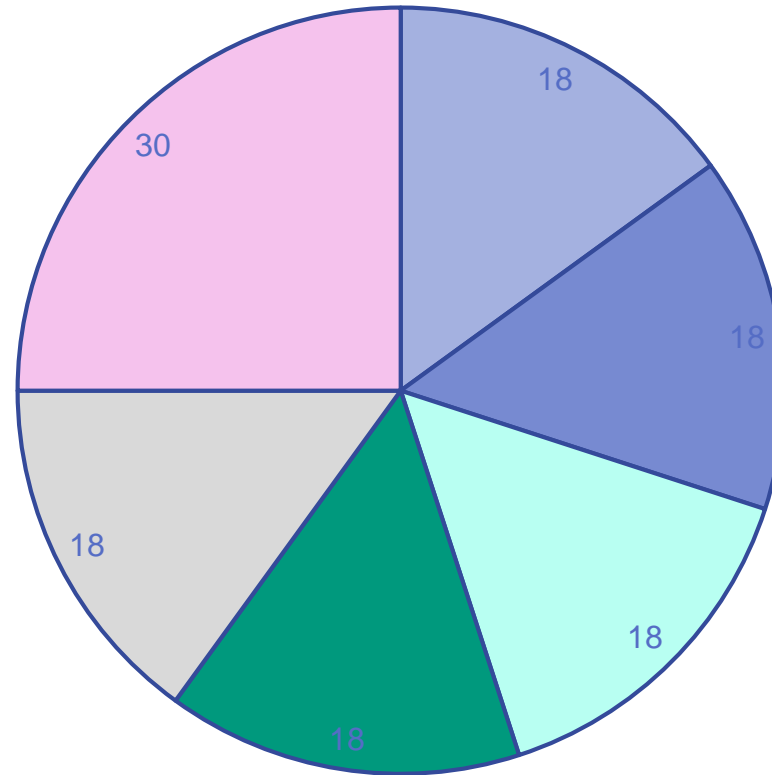- Graded assessments /Exams ("Prüfungsleistungen", PL)
  - Always graded
  - Always counts into the final grade
  - Strict rules/regulations and very limited number of attempts

Syllabus: General structure by ECTS

120 ECTS Credits overall

ECTS Credits

- ■ Essential Lectures in Computer Science
- ■ Advanced Microsystems Engineering
- ■ Remaining / flexible credits
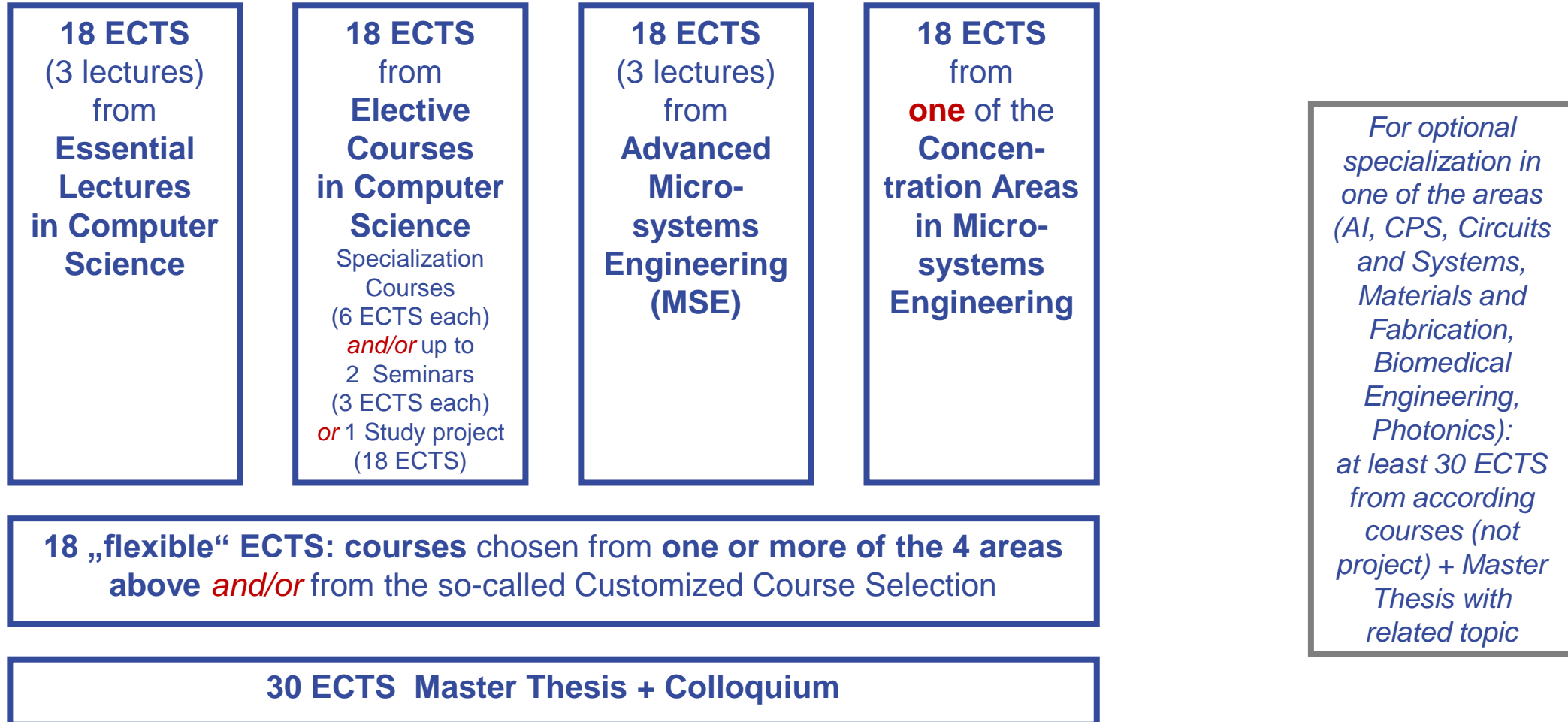- ■ Elective Courses in Computer Science
- ■ Concentration Area in Microsystems Engineering
- ■ Thesis

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Syllabus: Rules

- 4 mandatory areas with 18 ECTS each

  - 2 Computer Science (Essential Lectures in CS + Elective Courses in CS)

  - 2 MSE (Advanced MSE + Concentration Area in MSE)

- Remaining 18 ECTS have to be distributed among

  - Either one or more of the above mentioned areas

  - And/or the (optional) area of Customized Course Selection (Please Note: This is **not** the name for these 18 „flexible" credits! It's a colorful selection of different pass/fail courses.)

- You are not allowed to take more courses than necessary, to meet these requirements

- In general, you have to plan so you hit the 90 credits (no massive „overshooting" of credits – this is especially important with projects)

Syllabus: General structure

18 ECTS (3 lectures) from **Essential Lectures in Computer Science**	18 ECTS from **Elective Courses in Computer Science** Specialization Courses (6 ECTS each) *and/or* up to 2 Seminars (3 ECTS each) *or* 1 Study project (18 ECTS)	18 ECTS (3 lectures) from **Advanced Micro-systems Engineering (MSE)**	18 ECTS from **one** of the **Concen-tration Areas in Micro-systems Engineering**

18 „flexible" ECTS: courses chosen from **one or more of the 4 areas above** *and/or* from the so-called Customized Course Selection

30 ECTS Master Thesis + Colloquium

For optional specialization in one of the areas (AI, CPS, Circuits and Systems, Materials and Fabrication, Biomedical Engineering, Photonics): at least 30 ECTS from according courses (not project) + Master Thesis with related topic

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Essential Lectures in Computer Science

Module (take courses up to at least 18 ECTS)	ECTS	Semester (recommended) when starting in winter semester
Algorithm Theory (course type: advanced lecture)	6	1 or 3
Cyber-Physical Systems – Discrete Models (course type: specialization course)	6	1 or 3
Databases and Information Systems (course type: advanced lecture)	6	1 or 3
Introduction to Embedded Systems (course type: specialization course)	6	1 or 3
Machine Learning (course type: advanced lecture)	6	1 or 3
Computer Architecture (course type: advanced lecture)	6	1 or 3
Foundations of Artificial Intelligence (course type: advanced lecture)	6	2
Image Processing and Computer Graphics (course type: advanced lecture)	6	2
Software Engineering (course type: advanced lecture)	6	2

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Elective Courses in Computer Science

You have to take courses up to at least 18 ECTS.
The maximum (if you do not take more than the bare minimum 18 ECTS anywhere else) would be 36 ECTS.

You can choose from

- Specialisation Courses in Computer Science (6 ECTS each)
- *And/or* up to 2 Seminars (3 ECTS each)
- *And/or* 1 Study project (18 ECTS)
  (Please be aware that you cannot surpass the 36 ECTS here or the 90 ECTS overall, so plan carefully if you intend to take the study project!)

Advanced Microsystems Engineering (MSE)

For you, starting in summer semester, please invert the semester… (even → odd and vice versa)

Module (take courses up to at least 18 ECTS)	ECTS	Semester (recommended) when starting in winter semester
Assembly and Packaging Technology	6	1, 2 or 3
Micro-electronics	6	1 or 3
Micro-mechanics	6	1 or 3
Micro-optics	6	1 or 3
Modelling and System Identification	6	1 or 3
MST Technologies and Processes	6	1 or 3
Sensors	6	1 or 3
Signal Processing	6	2
Probability and Statistics (This **can't** be taken as part of the 18 mandatory credits, only if you opt to do more ECTS in this area!)	6	1 or 3

Concentration Areas in MSE

You have to choose **one** area and complete courses up to at least 18 ECTS.
If you choose to take more than this, the surpassing courses can be from another area.
(The maximum would, again, be 36 ECTS, if you do no courses in any other area.)

The 4 Concentration Areas are:

• Circuits and Systems

• Biomedical Engineering

• Materials and Fabrication

• Photonics

Customized Course Selection
What it is:

Instead of completing some or all of the 18 „flexible" credits by taking courses in one or more of these 4 areas, you can take some courses (max. 18 ECTS) in the so-called Customized Course Selection.

Here, you can choose from

- Pass/fail courses (Studienleistungen) from Computer Science or MSE
  (like lab courses in CS, Scientific Writing or Project Management in MSE)
- **One** language course (esp. German courses from **SLI** for international students)
  *(please note: **not** from the „Zentrum für Schlüsselqualifikationen" / BOK area!)*
- Selected courses from other departments / faculties, like from the Economics Department
  (not in planner of studies – application to study advisor (me) required)

Customized Course Selection
What it is *not*:

The Customized Course Selection ist NOT the name for the 18 "flexible credits"!

That seems to be a common misunderstanding. But Customized Course Selection is simply the name for these selection of pass/fail courses.

So, please don't ask the examination office or myself to *„move the MSE concentration course XY"* or *„the lecture YZ from Elective Courses in Computer Science"* **to** the CCS. Because that is **impossible**.
Courses have their defined area(s) and they stay where they are.

Be aware that the rules regarding the Customized Course Selection are different in the MSE and CS study programmes, when talking to other students or lecturers!

Master Thesis

- Master thesis (27 ECTS) graded
- Colloquium (= Presentation / Defense) (3 ECTS) graded
- Admission to thesis: at least 72 ECTS credits
  (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

Optional specialization

You can choose to do a specialisation in your study programme (which will be shown on the final documents). There are 6 specialisations available:

- Artificial Intelligence (AI) *(courses see website)*
- Cyber-Physical Systems (CPS) *(courses see website)*
- Circuits and Systems (i.e. the MSE Concentration)
- Materials and Fabrication (i.e. the MSE Concentration)
- Biomedical Engineering (i.e. the MSE Concentration)
- Photonics (i.e. the MSE Concentration)

The requirements are:

- You have to take courses with **at least 30 ECTS** from the according specialisation category
  (please note: study project, seminars or lab courses do not count in Comp.Sc.)
- You have to do a **Master Thesis** with a related topic

120 ECTS

30 ECTS → **Master Thesis** (30 ECTS)

Customized Course Selection
German Language Course (6 ECTS)

18 ECTS → **Essential Lectures in C.S.**
Introduction to Emb.Sys. (6 ECTS)
Computer Architecture (6 ECTS)
Machine Learning (6 ECTS)

18 ECTS → **Advanced MSE**
Micro-Electronics (6 ECTS)
Sensors (6 ECTS)
Modelling and System Id. (6 ECTS)

18 ECTS → **Elective Courses in C.S.**
Distributed Systems (6 ECTS)
Test and Reliability (6 ECTS)
Wearable and Implant. Comp.(6 ECTS)

Elective Courses in C.S.
Computer Vision (6 ECTS)

18 ECTS → **Conc. MSE (Circ. & Syst.)**
Energy harvesting (6 ECTS)
Microcontroller Tech. Lab (3 ECTS)
Numerical Optimization (6 ECTS)
Model Predictive Control and
Reinforcement Learning (3 ECTS)

Conc. MSE (Biomed. Eng.)
BioMems (3 ECTS)

Conc. MSE (Mat. & Fabric.)
Clean room Lab for Eng. (3 ECTS)

18 ECTS remaining to be distributed in…

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 cooperate with co-students…)

- Be aware that you might need to adapt your original study plan!
(Have a plan A, B and C…)

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 the information given 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?)*
- Check out a few more courses than you intend to complete in the given semester
  - *Go to the lectures for about 2-3 weeks and then decide, which courses to continue, and de-register from those you don't want to pursue*
- 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 programme)
  https://www.tf.uni-freiburg.de/bilder/studium_lehre/englische-poen/exam-regulations-msc-ese-po-2021

Registering for/ Booking of courses

- Have a look at your **Planner of studies** https://campus.uni-freiburg.de
- Follow instructions from the following explanation / slides
- 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 https://www.tf.uni-freiburg.de/en/studies-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 the booking of courses!

HISinOne Demo:
Login and Planner of Studies

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

HISinOne Demo:
Planner of Studies – Different views

- Use the correct view: Examination regulations

HISinOne Demo:
Examination regulations structure

Structure of examination regulations All subject related semesters

- 11LE50PO-MSc-787-2021 | Embedded Systems Engineering, M.Sc., PO 2021
  - 11LE50KT-9000-MSc-787-2021 | Master of Science/M.Sc.
    - 11LE50KT-8609-MSc-787-2021 | Preliminary average grade M.Sc. Embedded Systems Engineering (PO-Version 2021)
    - 11LE50KT-9991-MSc-787-2021 | ECTS Credit Account Master of Science in Embedded Systems Engineering (PO-Version 2021)
      - **11LE50KT-9991-MSc-787-2021-MM | Mastermodul / Master Module** |
      - 11LE50KT-MSc-787-2021-CS | Informatik | Computer Science
        - 11LE50KT-MSc-787-2021-EssentialCS | Essential Lectures in Computer Science
        - 11LE50KT-MSc-787-2021-ElectiveCS | Elective Courses in Computer Science
      - 11LE50KT-MSc-787-2021-MSE | Microsystems Engineering
        - 11LE50KT-MSc-787-2021-AdvancedMSE | Advanced Microsystems Engineering |
        - 11LE50KT-MSc-787-2021-ConcentrationsMSE | Microsystems Engineering Concentrations Area
          - 11LE50KT-MSc-787-2021-MSE-CaS | Circuits and Systems
          - 11LE50KT-MSc-787-2021-MSE-MaF | Materials and Fabrication
          - 11LE50KT-MSc-787-2021-MSE-BE | Biomedical Engineering
          - 11LE50KT-MSc-787-2021-MSE-P | Photonics
      - 11LE50KT-MSc-787-2021-CCS | Customized Course Selection

HISinOne Demo:
Module – Courses – Assessments

11LE13MO-2010 ESE PO 2021 | Algorithms Theory |

11LE13MO-2020 ESE PO 2021 | Computer Architecture |

11LE13MO-2070 ESE PO 2021 | Cyber-Physical Systems – Discrete Models |

    11LE13V-2070 | Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - Lecture | lecture course |

    11LE13Ü-2070 | Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - Exercises | excercise course |

    11LE13SL-2070 | Cyber-Physikalische Systeme - Diskrete Modelle / Cyber-Physical Systems – Discrete Models - course work |

    11LE13PL-2070 | Cyber-Physikalische Systeme – Diskrete Modelle / Cyber-Physical Systems – Discrete Models - Examination |

11LE13MO-2060 ESE PO 2021 | Datenbanken und Informationssysteme / Data Bases and Information Systems |

11LE13MO-2040 ESE PO 2021 | Foundations of Artificial Intelligence |

    11LE13V-2040 | Foundations of Artificial Intelligence - Lecture | lecture course | → **apply**

    11LE13Ü-2040 | Foundations of Artificial Intelligence - Exercises | excercise course | → **apply**

    11LE13SL-2040_PO 2020 | Foundations of Artificial Intelligence -Studienleistung |

    11LE13PL-2040 | Foundations of Artificial Intelligence - Examination |

11LE13MO-2050 ESE PO 2021 | Image Processing and Computer Graphics | Your actual status: **Coursework submitted/ registered**   Term of the examination: **ss 2025**

    11LE13V-2050 | Image Processing and Computer Graphics - Lecture | lecture course | → **Sign off/ Cancel**   Your actual status: **confirmation of participation**   Term of the examination: **ss 2025**

    11LE13Ü-2050 | Image Processing and Computer Graphics - Exercise | excercise course | (1 of 3) → **Sign off/ Cancel**   Your actual status: **confirmation of participation**   Term of the examination: **ss 2025**

    11LE13PL-2050 | Image Processing and Computer Graphics - Examination |

11LE13MO-910 ESE PO 2021 | Introduction to Embedded Systems |

HISinOne Demo:
Registration procedure for seminar or project

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

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

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

> **11LE13MO-1202 ESE PO 2021 | Test and Reliability** |

> **11LE13MO-1223 ESE PO 2021 | Verification of Digital Circuits** |

> **11E13MO-1402_PO 2020 | Wearable and Implantable Computing (WIC)** |

▼ **11LE50MO-Seminar 1 | Seminar 1** |

    > 11LE13VG-Seminar | VG Seminar 1 M | (1 of 10)

    ● 11LE13SL-Seminar 1 | Seminar 1 - course work | 🕐

    ● 11LE13PL-Seminar 1 | Seminar 1 - Examination | 🕐

> **11LE13MO-Seminar 2 | Seminar 2** |

▼ **11LE50MO-8140 ESE PO 2021 | Studienprojekt MSc ESE** |

    ● 11LE50VG-8140 ESE PO 2021 | Studienprojekt MSc ESE |

'11LE50KT-MSc-787-2021-MSE | Microsystems Engineering

HISinOne Demo:
Advanced MSE and Concentrations

▼ 🏷 11LE50KT-MSc-787-2021-MSE | Microsystems Engineering

    ▼ 🏷 11LE50KT-MSc-787-2021-AdvancedMSE | Advanced Microsystems Engineering |

        ❯ 🧩 **11LE50MO-7700/986 ESE PO 2021 | Assembly and packaging technology** |

        ❯ 🧩 **11LE50MO-7050/986 ESE PO 2021 | Micro-electronics** |

        ❯ 🧩 **11LE50MO-7100/986 ESE PO 2021 | Micromechanics** |

        ❯ 🧩 **11LE50MO-7600/986 ESE PO 2021 | Micro-optics** |

        ❯ 🧩 **11LE50MO-2080 ESE PO 2021 | Modelling and System Identification** |

        ❯ 🧩 **11LE50MO-7250 ESE PO 2021 | MST Technologies and Processes** |

        ❯ 🧩 **11LE50MO-6100 ESE PO 2021 | Probability and statistics** |

        ❯ 🧩 **11LE50MO-7500/986 ESE PO 2021 | Sensors** |

        ❯ 🧩 **11LE50MO-7400 ESE PO 2021 | Signal Processing** |

    ▼ 🏷 11LE50KT-MSc-787-2021-ConcentrationsMSE | Microsystems Engineering Concentrations Area

        ❯ 🏷 11LE50KT-MSc-787-2021-MSE-CaS | Circuits and Systems

        ❯ 🏷 11LE50KT-MSc-787-2021-MSE-MaF | Materials and Fabrication

        ❯ 🏷 11LE50KT-MSc-787-2021-MSE-BE | Biomedical Engineering

        ❯ 🏷 11LE50KT-MSc-787-2021-MSE-P | Photonics

HISinOne Demo: Customized Course Selection

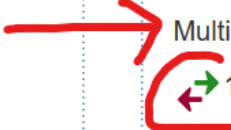- Optional; only courses completing with pass/fail assessments

11LE50KT-MSc-787-2021-CCS | Customized Course Selection

- 11LE50MO-7003 ESE PO 2021 | MST Design Lab I for Microsystems Engineering |
- 11LE50MO-5803 ESE PO 2021 | Project management for engineers |
- 11LE50MO-5801 ESE PO 2021 | Scientific writing and presentation |
- 11LE13MO-7110-1 ESE PO 2021 | Praktikum Informatik 1 |
- 11LE13MO-7110-2 ESE PO 2021 | Praktikum Informatik 2 |
- 11LE13MO-7110-3 ESE PO 2021 | Praktikum Informatik 3 |
- 11LE50MO-5609 ESE PO 2021 | Kompetenzen für die erfolgreiche Abschlussarbeit |
- 11LE13MO-Sprachkurs ESE PO 2021 | Language Course SLI Recognition

11LE50KT-MSc-787-2021-CCS-FWB | Courses offered in other departments of the University |

11LE50KT-MSc-787-2021-CCS-FWB SSE | Sustainable Systems Engineering |

HISinOne Demo: Multi-connected Elements

- Green and red arrows? Don't panic!

11LE50KT-MSc-787-2021-ConcentrationsMSE | Microsystems Engineering Concentrations Area

    11LE50KT-MSc-787-2021-MSE-CaS | Circuits and Systems

    Multi-connected Elements (Please click on the respective heading to display the respective element):

    11LE13MO-1404 ESE PO 2021 | Embedded Computing Entrepreneurship (2ES) | Core elective | 6.0 ECTS

    11LE50MO-5249 ESE PO 2021 | Numerical Optimal Control in Science and Engineering | Core elective | 6.0 ECTS

    11LE50MO-5243 ESE PO 2021 | Numerical Optimization | Core elective | 6.0 ECTS

    11E13MO-1402_PO 2020 | Wearable and Implantable Computing (WIC) | Core elective | 6.0 ECTS

    11LE50MO-5202 ESE PO 2021 | Analog CMOS Circuit Design |

    11LE50MO-5268 ESE PO 2021 | Angewandte Sensorschaltungstechnik |

    11LE50MO-5804 ESE PO 2021 | Clean Room Laboratory for Engineers |

    11LE50MO-5271 ESE PO 2021 | CMOS MEMS |

HISinOne Demo:
Other useful menu items

My Studies

Planner of studies with Module plan

Remark moduls, enroll lectures and sign in for examinations

Schedule

See events and examinations in your personal schedule

My course enrollments and exam registrations

Get an overview of your examinations and courses

My achievements

Get an overview of your achievements, i.e. examinations or visited lectures.

Import results with EMREX

Imports achievements completed at another university.

module handbook

View your module manual(s)

Student Service

Get an overview of your status, contact details, invoices and payments. Create reports, reregistration

Course plan

Course plan, filled with my semester and course(s) of study.

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

    - 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 **very next semester**.

- You can replace 1 failed course (in CS or MSE) 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 (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

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 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

What about AI like ChatGPT?

→ If lecturers don't explain their rules about this, please ask them about this!
Don't just assume it's fine to use, it might be seen as cheating!

- 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 programme 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
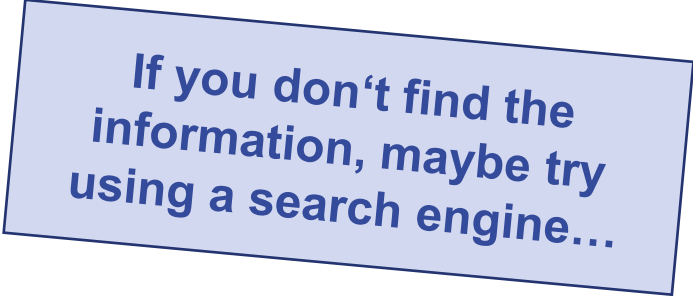
Some thoughts to share…

- **A Master's programme in Germany: <u>A University is NOT a school!</u>**
  - You have to organize your courses … and your life
  - You have to register for your courses on your own
  - You'll be challenged from the first day on to assess given knowledge…
  - …and to transfer given knowledge from one course to another
  - You will be shown many aspects of embedded systems and their applications to broaden your knowledge and increase the opportunities for an exciting career.
- **That means for you…**
  - YOU have to take the initiative to ASK, ASK and read until you understand!
  - WE give you the overview, YOU have to learn the details.

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!

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

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 programme
  https://www.tf.uni-freiburg.de/en/study-programs/embedded-systems-engineering/m-sc-embedded-systems-engineering

- Contacts for advisory services at TF etc.:
  https://www.tf.uni-freiburg.de/en/study-programs/counseling

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Mentoring

- **Every student has a faculty mentor**
  - A professor as a contact person
  - Assigned by the Dean of Studies
- Contact for
  - problems
  - questions
  - clarifications
  - job searches
  - recommendations
  - or just general advising

- Just **not** the best contact for
  - Details on the exam regulations or the programme structure
  - Details on the Campus-Management-System

Gegen sexuelle Belästigung,
Gewalt und Stalking
Against Sexual Harassment,
Violence, and Stalking

Foto:The KonG – stock.adobe.com

Beratung? Counselling?

+49 761 203-4222

+49 152 22928696

www.gleichstellungsbuero.uni-freiburg.de

Further contact points outside TF:

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

SCS – Sedanstr. 6

Zentrale Studienberatung
(Central Academic Advising)

Information

Hotline

Beratung/ Counseling

Workshops, Events

Media-Team (OSA, myUFR-App)

Projects

Studierendenbüro
(Registration office)

Applications/ Admissions

Student Administration

Intercultural Mentoring

APIS - Additional Program for Internat. Students

UniCard office

Deutschlandstipendium

Scholarship advising

FACE: advising on teachers training

Studying abroad | Erasmus+

Representative f. Students with a Disability or Chronic Illness

Federal Employment Agency University Team

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Whom to ask about what?

- Programme related matters

Lecturers/ Professors

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

Programme coordinators / Study advisors

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

- General matters

Registration office (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.

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

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.)

→ **https://www.studium.uni-freiburg.de/en/counseling**

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

- Please do use a subject – preferably a sensible one

- 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 programme…

- Use full names of professors, supervisors or lecturers
  (we are not on first name base with everyone at the faculty)

- Please write a new mail to the person you wish to contact.
  Don't "answer" to general information mails from us, if it's not a direct question about the content of that mail.

- 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:

According to the pool managers, the account information will be mailed to you next week.

- 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

Have a good start!

**And remember to meet your
Campus tour guide here in this lecture hall!**