Orientation manual for new international students
MSc. Computer Science

August 2017
Welcome

We would like to take this opportunity to welcome you to the Department of Computer Science at the University of Freiburg. Your decision to study Computer Science with us at the Faculty of Engineering means that you have chosen an innovative field being taught at a young and dynamic institution. The very fact that Freiburg’s Computer Science department is relatively new, means that our 15 professors and two junior professors will expose you to a broad spectrum of interesting topics which have equal significance for both R & D and the industrial sector. The way things work at a German university might be quite different from what you have been used to. For one thing, here you are expected to work independently and demonstrate a large measure of self-responsibility and initiative. That does not mean that you are alone. Our department has a large, supportive team to help you. Our goal is to assist in smoothing the way for you to complete your studies successfully with as few hitches as possible. In this brochure, we hope to provide you with an overview of the content and general framework and conditions of your course of studies in Computer Science. It is designed to aid you, especially at the beginning, in getting the most out of your education. Please do not hesitate to provide us with feedback about this brochure (studienkoordination@tf.uni-freiburg.de). This will help us to keep improving our efforts for the students who will follow in your footsteps. Please know that you have our best wishes for success as you delve into your studies and student life.

Prof. Dr. Oliver Paul (Dean)  
Prof. Dr. Hannah Bast (Dean of Studies)

Preface

Even though this brochure is an official Faculty publication, we have chosen to use a more informal style and placed great value on making it clear, practical and easy to use. It is supposed to be understandable and, well, different from the majority of official documents which are usually extremely formal and almost impossible to comprehend. Our aim is to give you a sort of personal advisor that can help you answer many of the questions about your studies and student life. The suggestions and tips are presented from the student perspective and we hope, come across like pieces of advice from a good friend. That is why you will find here uncomplicated and practical language designed to get to the point. We will also provide you with names and addresses of who to contact or where to go for more information.

We wish you, our readers, a great start as you begin your studies and hope that this manual will be a valuable assistant and guide during your first semester.
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1 Computer Science
1.1 General Information

1.1.1 The German Higher Education System

Germany is a federal system, which means it is organized into different states, the so-called "Bundesländer". These "Bundesländer" are responsible for all matters relating to education, including universities. The result of this system is that there may be substantial differences between the "Bundesländer" in some aspects of the education system, although a general framework is set by laws at the federal level.

In terms of teaching and research, universities are quite independent and separate from the general framework and so not governed very much by laws or policies on a higher level. This means that they have a high level of freedom to decide the contents of the programs they offer and the exams the students have to take. Therefore, it is very difficult to compare similar programs, lectures and exams at different universities.

The top level of management at a university has limited power. There is almost no university wide policy about how to teach or how to conduct exams. Apart from some general regulations, such as the length or timing of exams, individual lecturers and examiners are given a lot of independence in how to conduct lectures and exams.1

1.1.2 University Staff

Academic staff at the University are divided into three groups:

**Professors:** There are several types of professors. The main types are:
- the 'chair' (German: "Lehrstuhlinhaber") which means that he/she heads a whole institute (chair = "Lehrstuhl") and
- the 'professor' (German: "Professur") which means that he/she does not head a chair ("Lehrstuhl"), but a research group

Administratively, a professorship is usually part of a chair, but scientifically the professor, who holds a particular professorship, and the 'chair' work independently.

**Permanent staff:** Most of the chairs have some permanent academic staff (known in German as 'Akademischer Rat', 'Akademischer Oberrat' or 'Akademischer Direktor') who will mostly have a PhD degree. Note: There are only a few of these positions. Most of the work is done by the professors (who are employed permanently) or by non-permanent PhD students (who work temporarily at the University for between 3-5 years).

**PhD students:** Each chair / professorship has positions for PhD students. Sometimes it is just a small group of 3-5 students, but there may also be up to 20-30 students working at one chair, who are again divided up to subgroups
(mostly headed by a PostDoc). Most PhD students do not only work on their PhD thesis, but are also involved in other projects ('pure science' or industry related). They usually contribute to teaching or have internal duties within their institution.

Note: There are almost no employees who work just as 'lecturers' as it is the case in many other countries. Lectures are given by the professors and the permanent staff, supported by the PhD students. All people who lecture are also involved in research activities. This is the so-called "Prinzip der Einheit von Forschung und Lehre" (= "principle of the unity of research and teaching") which is a fundamental idea in the German University system. This principle is an important basis for understanding how a lot of the professors think about teaching and research.

This principle means that everyone who gives lectures should also be involved in research activities in order to remain in close contact with the most up-to-date activities going on in a particular field and to have the latest knowledge available. This is supposed to ensure that the content taught in lectures is very up-to-date.

Of course, this requires from the lecturers that they have to balance work and responsibilities in both research and teaching, which is often not easy and might result, for example, in a conflict of deadlines (dates of lectures and conferences) and involve difficult decisions on how to allocate time and work resources. Students encounter these problems, for example, in the timely organization of lectures or in the availability of lecturers for an appointment.

Use of terms: Somebody who is giving a course/lecture is referred to as a 'lecturer'. This may be a professor or a non-professor. Sometimes the use of the term 'professor' is supposed to stress that it is the Professor himself who is giving a lecture (not a non-professor), sometimes it is just used as an equivalent for 'lecturer' independent of whether somebody is a professor or not. In any case, the German use of 'lecturer' is not consistent with the British term 'lecturer' which describes a position within the British university system. The term rather describes the person who is chairing a course (this could be a PhD student, too).²

1.1.3 High level of freedom

Compared to the university systems in other countries the German system provides more freedom both for the lecturers and the students. This also means more responsibility. The basic idea of the German education system is that the ability to handle autonomy and the responsibility that results from the freedom to work independently is an important part of the academic qualification which is gained during a study and which is certified with a Master’s degree. Students should not only be trained in a subject (content, methodology, etc.) but also in skills which are not related directly to a subject, so-called 'key qualifications'. These are transferable skills which are important and similar for all subjects, for example, setting priorities, developing work and study plans, balancing studies, work and life. They are trained as a part of the learning curve of one specific subject, but are actually independent of that subject.
This idea of the important ability to handle freedom and responsibility means, for example, that:

- Professors have a high level of freedom to decide about the form and the content of courses they give and exams they carry out. There is no strict curriculum which professors have to follow but they may decide very freely what to include, what to emphasize in a lecture and what not. They are open to feedback from the students, however, and most of them are prepared to take the wishes and demands of students into account, whenever possible. Therefore: Whenever students have ideas or requests relating to the content of a lecture, they should talk to the lecturers. That is absolutely common and widely accepted.

- For exams there are some general rules which have to be applied but apart from that professors may formulate questions as they want, and personal styles are quite different. Therefore, it is very important before an exam to get advice from students who already took the same or another exam with this specific professor.

- Students have some freedom to choose special topics within their study program.

- Students may come to individual agreements with their professors/lecturers. This refers, for example, to reports they have to write or presentations they have to give. The individual agreement may be about length, content, deadline, form, etc.

Note: It is very common and always acceptable to ask for an individual agreement. But: once an agreement has been made, most lecturers like to stick to it and not change it all the time; also a request which was first rejected should not be submitted again.

- Students are very free as to when and how to learn. In almost all lectures, clear recommendations are given on how to learn (for example, which books or papers to read, which material to work on, which exercises to do), but unless explicitly said, nobody will check whether students follow the recommendation or not. As long as the student’s performance in the exams is fine, nobody minds students following their own path. In particular one ‘generation’ of students very often gives recommendations on what to learn in a specific course to the next generation of students which are, say, at least as good as the recommendations of the lecturers. Note: If it is explicitly said that you should work or learn in a specific way, then you really should do it. As it is done only in rare cases it is even more important in these.

- Compulsory attendance. In most lectures it is not compulsory to attend. Usually it is only compulsory for seminars, laboratory or practical courses but not for other lectures. But: each lecturer has the freedom to demand regular attendance at his/her lecture. Also, it is regarded as an act of courtesy either to attend a lecture regularly or not at all, but not just from time to time.
Exception: In many cases, important organizational details are discussed in the first meeting of a course. Therefore students are expected to attend the first meeting of a course. If they cannot attend at all, they are supposed to collect the relevant information first from other students and only ask the lecturer more detailed questions.

Note: As attendance is only compulsory in a few cases, the duty to attend these must be taken even more seriously! This applies in particular to lab courses. In lab courses it is also of the utmost importance to come to each meeting very punctually and to attend every (!) session of a course, unless serious (!) reasons, like illness, make it impossible. In such cases students who are unable to attend should inform the lecturer via e-mail about their absence.³

1.1.4 Culture of Discussion

Most lecturers like to have discussions in their courses and therefore want the students to be very active in the courses. Students are expected:

- to ask questions
- to discuss
- to have their own opinion
- to give an individual assessment of things
- to develop their own ideas

Hardly any lecturer will mind if a student asks something, criticizes something (in a proper way) or has a different opinion about something. If a discussion takes too much time or the course is not the right place for it, the lecturers will let the student know. If they do so, this is not to be regarded as criticism of the initiation of a discussion or the raising of a question, but as a means to proceed with the course.⁴

1.1.5 Degrees

1.1.5.1 Bachelor’s Degree

The combination of the bachelor’s and master’s degrees replaced the old course of study leading to a diploma during the winter semester 2006/2007, and is now the standard. The bachelor’s degree work lasts six semesters and the program complies with international standards. Great emphasis is placed on preparing students for professional life and giving them career-related experience. During the entire course of study, students will participate in lectures about subjects designed to prepare them for the world of work. These include: communication, project management and business start-up. Some of the classes also require students to complete a project and/or perform practical tasks. The bachelor’s degree qualifies for entry to the business world and is also a condition for further study towards obtaining a master’s degree.
1.1.5.2 Master’s Degree

In 2001 the Department of Computer Science started offering a Master’s program in Computer Science for international students. In the beginning it was a bilingual program, but given the fact that less and less subjects were taught in German, it was decided to waive the German proficiency prerequisite. In the summer semester of 2014 the first students have been admitted without any German proficiency. The Master’s program is research oriented and provides you with the competencies you need to conduct independent, scientific research. Additionally, you will participate in lectures, seminars and labs chosen according to your specialty areas. In the fourth semester, you will write your master’s thesis. Having obtained your master’s degree, you are qualified to begin working towards your PhD. For more information about the Master’s programs, please go to: http://www.tf.uni-freiburg.de/studies/degree_programmes/master/msc_informatik.html

1.1.6 Course Types

Your study program consists of several courses. The following course types are offered

- Lectures and Tutorials (Vorlesung und Übung)

These are the traditionally accepted and practiced methods of educating students at university. The lecturer, usually a professor, presents the subject matter to the students. Experience has shown that in lectures, knowledge normally only flows in one direction. The students on the receiving end are, however, encouraged to ask questions and seek dialogue. Tutorials provide follow-up to material covered in lectures and their content is dealt with more extensively. This occurs mostly through discussing and working through practice handouts and notes, or by calculating sample exercises. Tutorials are normally led by students in advanced semesters, PhD candidates and assistants.

Please note: Lectures and tutorials are stated as two separate courses in the course catalog. Please make sure to always register for the lecture as well as for the tutorial!

- Lab course or practical course (Praktikum)

The point of lab courses is to put the theory you have learnt into practice. Such courses have a flexible design, and in them, students work independently to complete an assigned task or solve a problem.

- Seminars (Seminar)

In a seminar, you have the opportunity to work through and increase your knowledge about a particular topic on your own. You then present your findings to other seminar participants.
1.1.7 Course registration / Booking for a course

You need to register/book in in advance for each course you wish to take. Before being able to use the online registration system for the first time, you have to activate your university user account (see 2.6.2). You will receive your user name and password automatically after matriculating (= enrolling) at the University.

Please make sure to enter your current e-mail address when first using the account (or forward your e-mails to the account you mainly use), because this e-mail address will be fed as your contact address into the database of the student registry and examination office.

Course registration is necessary so that your instructor knows in advance how many students wish to participate in the course and how large the room for instruction needs to be. The advantage for you is that you can make your personal study schedule in the online system and you will see right away if any time clashes occur.

As you can see on the website https://www.tf.uni-freiburg.de/studies/calendar/dates.html? there are two booking periods for the winter semester 2017. It is recommended that first semester students, register for their courses after having attended the orientation meeting (i.e. during the second booking period).

Registration occurs online using HisinOne:

Please make your bookings via the function "Planner of studies". After the login click on the menu item "My studies" - "Planner of studies". The instruction manual how to book a course with the "Planner of studies" is online on the following website:

http://www.tf.uni-freiburg.de/studies/online-systems/course_booking/belegung.html

1.1.8 Examinations

Throughout the program, you will have a lot of exams. These can be oral exams, written exams or papers. It is important to know, that in Germany, students are not only expected to reproduce the acquired theoretical knowledge in an exam. They should also be able to discuss the knowledge, to apply it and to take it to the next level. In addition, in a lot of exams you will be under time pressure. It is therefore crucial to first get an overview over all the questions and then start with those to which you are sure to know the right solution.

1.1.8.1 Examination regulations

The examination regulations provide the framework and conditions for your education. They inform you about what course work you need to do in order to obtain your degree, which appointments and deadlines you have to keep and
all other requirements you have to fulfill. Due to the fact that the examination regulations are a legal document, till now they were only provided in German. However, an unofficial English version is available on the following website: 
http://www.tf.uni-freiburg.de/studies/degree_programmes/master/msc_informatik.html

1.1.8.2 Which version of the examination procedures and regulations applies to me?

For every degree, there is a different applicable version of the examination regulations. As a new student in the Master’s in Informatik/Computer Science the regulations applying to you are the 2011 version (PO-Version 2011).

1.1.8.3 Examination Registration and Deregistration

Examinations are always given during a certain timeframe. In the winter semester the examinations take place in February and March. In the summer semester in August and September. You can find the exact examination dates for any given semester at the Faculty of Engineering (Technische Fakultät - TF) at:

https://www.tf.uni-freiburg.de/studies/exams/calendar/exam_dates.html

In order to sit an examination, you have to register for it. Examination registration takes place online using HisinOne.

Please note: Even if the exam is not written or oral but for example a paper or a project that you have to submit, you have to register for it! This is the case if the subject is marked with one of the following icons in HisinOne: ✝️ standing for an examination which is always graded, and 📚 standing for a course work, which will be either graded or just “passed” or “failed”.

You may only register and deregister for an examination during the official registration or de-registration period. Please make sure you check the Examination Office homepage.

Attention: Registration for a course and for an examination are two different procedures. By registering for a course, you are only acknowledging your desire to participate in a particular class. If you wish to sit the examination for that course, you must register separately for the corresponding exam.

Registration and Deregistration Procedures

Your registration for an examination is binding. It applies automatically for any necessary repeat examinations. You can only register or deregister for your first attempt in a specific exam during the official registration or de-registration period. Retake exams cannot be canceled from your side. After the deadline has passed, registering or deregistering for an examination is no longer possible. You should also be aware that every registration may be conditional. For some exams it is required to fulfill admission criteria to be allowed to take the exam (e.g. exercise sheets or mid-term exams) If you did not fulfill them,
you will not be permitted to sit the examination. In such a case, you will be informed in writing via postal service by the Examination Office.

Print out the overview of the exams you have registered for as soon as you have completed the registration and put it in your bag when going to the exams. If your name should by mistake not be on the list of participants that the examiner gets, you can proof that you have registered for the exam. In that case you will be conditionally accepted to participate in the exam.

1.1.8.4. ECTS Points/Limits on Repeating Examinations

The ECTS point system is used for the bachelor’s and master’s degrees. Each course you take is assigned a certain number of ECTS points which correspond to the amount of work you must do to successfully complete it. In this system, one ECTS point is equivalent to about 30 hours of work. Included here is the time you spend preparing for class, doing homework and studying for an examination during semester breaks. Every semester, you are expected to have a course load worth 30 ECTS points. This adds up to a work load of 900 hours per semester (i.e. 150 hours per month or 37.5 hours per week).

Every examination may be repeated at maximum once. Exceptions to this are 3 examinations which you are permitted to repeat twice. This is only possible for examinations belonging to one of the following modules: “Core Areas in Computer Science”, “Advanced Computer Science” or “Specialisation in Computer Science I, II or III”. The first repeat examination must be sat at the next possible examination date. The examination office will automatically register you for the first repeat. That means that you have to take that exam unless you are ill. Given the fact that each course is only offered once a year, this means that you do not have the possibility to attend the lecture a second time before taking the first repeat examination. You will have to prepare for the exam using the online lecture material and the handouts. Papers, projects, reports, bachelor’s or master’s thesis can only be repeated once.

1.1.8.5 Compensation Regulations for Improving Grades

In the Master’s program in Computer Science it is not possible to improve the grade of an exam you have already passed.

1.1.8.6 Grades

Grades are on a scale of 1 to 5 and include interim values as a way of further differentiating the evaluation of your performance. These interim values can be either .3 points higher or lower than a value between 1 and 4 on the grading scale. This means you could receive a grade of 1.3 or 2.7, but there are no such grades as 0.7 or 4.3, 4.7, or 5.3. The individual grades mean:

1 (very good) – your performance is excellent
2 (good) – your performance is well above the average expectations
3 (satisfactory) – your performance meets average expectations
4 (sufficient) – your performance, although lacking in some areas, meets expectations sufficiently to receive a passing grade

5 (non-sufficient) – due to significant deficiencies, your performance is not sufficient to meet the expectations and your grade is a non-pass.

A grade of at least 4.0 is required in order to pass an examination. Your final grade is calculated by averaging your grades received in the partial examinations as weighted by the ECTS point system.

1.1.8.7 Illness

Should illness prevent you from appearing for an examination or if you should discontinue an examination, you are required to provide proof of the illness in accordance with the Examination Regulations. To this end, you must obtain a doctor’s excuse which includes information from your physician sufficient for the Examination Office to decide whether the illness in question satisfies the criteria for permitting the cancellation or interruption of an exam. Making this decision is solely the responsibility of the Examination Office. A doctor’s excuse which merely states that you were incapable of working or sitting an exam is insufficient for this purpose. The doctor’s excuse must provide a brief description of your medical condition. Therefore, it is necessary for you to release your doctor from their obligation of medical confidentiality. This does not mean your doctor must provide an exact diagnosis, but rather state how the illness affected you physically and/or mentally. This is in accordance with the Data Protection Act. The form needed for reporting your illness is called “medical certificate for master students” and located on the Examination Office homepage under: https://www.tf.uni-freiburg.de/studies/exams/forms

Print out this form before you go to your doctor. Have him/her fill out and sign it, then bring the form immediately to the Examination Office. Immediately means within three working days after the examination. For example, if the exam took place on a Friday, you must present the doctor’s excuse to the Examination Office no later than the following Wednesday.

If you start taking an exam, you thereby automatically declare that you are fit to take the exam. You should therefore consider before sitting an exam whether you are really 100% in the state to take it. If the symptoms start while you are taking the exam, (for example sickness, headaches…) please inform the examiner/supervisor, submit your exam paper, leave the room and go straight to the doctor. Once you have completed the exam it is almost impossible to withdraw from it.

It is also important to know that the doctor’s examination has to take place on the same day of the examination. If your general practitioner should not be available on that day, you will have to see someone else or go to the emergency clinic (Notfallpraxis der Kassenärztlichen Vereinigung, Hugstetter Straße 55, 79106 Freiburg, Tel: 116 117, no area code needed).

Collect and keep all your medical records such as doctor’s excuses and reports.
Such documents are helpful in case you need to have deadlines extended or for the calculation of your credit point balance (extension).

1.1.8.8. Personal/other reasons

If you should face personal problems (for example illness/death of a family member, separation from your boyfriend/girlfriend) during the examination preparation or during the examination period, it is important that you immediately contact the examination office or program coordinator or study advisor to explain your situation. Depending on the reasons presented we will then try to find a solution with you. If you should take an exam despite of these problems, you will do that on your own risk. The examination regulations do NOT provide any regulation for cases of hardship, which means that we cannot offer you another attempt even if the reasons for your failing might be comprehensible.

1.1.8.9 Repeat Examinations

In principle, you are allowed to repeat every examination at least once. If you do not pass an examination (Grade 5.0), the examination office will automatically register you for the next exam offered. Normally, the repeat examinations are given during the examination period in the following semester. If you do not pass the examination the second time, then you have lost your right to continue your studies, unless you have not yet made use of the second repeat regulation (see 1.1.8.4).

1.1.9 Be informed!

It is part of the German education philosophy that you actively look for the information you need. Don’t expect to be spoon-fed. However, you are welcome to ask, if you do not find the information needed on the web pages.

1.1.9.1 The internet is your main source of information

When you are looking for information about your studies, the internet is your primary source. This is where you can find most of the information that is relevant to your needs.

1.1.9.2 Examination Office

The Examination Office is responsible for the organization and administration of all examinations at the Faculty of Engineering.

Here you can find answers to questions about examination regulations, help with organizing your examination schedule, advice about difficult situations in your studies and so on. The Examination Office provides general notices, important links and special information regarding your program in the internet under: https://www.tf.uni-freiburg.de/faculty/centralservices/examination_office.html

You can repeat every examination at least once.

You can find a great deal of information about your course of studies in the internet.

The Examination Office is responsible for organizational questions about exams.
During office hours, the Examination Office cannot be reached via telephone. The best times to speak to someone in the office on the phone are Monday and Friday mornings and Tuesday and Thursday afternoons or on Wednesdays.

1.1.9.3 Student Advising

If you have questions about your studies, you should turn to Student Advising for assistance.

The Student Advisor for Computer Science students is:

Martina Nopper, studienberatung@informatik.uni-freiburg.de
Tel. 0761/203-8169, Bld. 101, room 02 013a

For questions about general student life (scholarships, jobs, administrative matters, etc.) you can also turn to

Ursula Epe, Program Coordinator at the Faculty of Engineering:
studienkoordination@tf.uni-freiburg.de
Tel.: (0761) 203-8340, Building 101, room 02 013a

1.1.9.4 Departmental Student Committee (Fachschaft)

In addition to representing all students on the Faculty Council, the Departmental Student Committee is involved in a wide range of other activities and provides a great deal of support for first semester undergraduate students. This committee organizes the pre-courses in math, orientation day and the first semester weekend away trip.

The Departmental Student Committee internet address is: http://fachschaft.tf.uni-freiburg.de. The website is only available in German, nevertheless, there are a few interesting features that you should use:

- You can find examination reports and copies of examinations from the previous semesters that you can use to help you prepare for your own exams: http://db.fachschaft.tf/exams/quick-search

Due to copyright laws, you can only download examination regulations and past exams when using an internet connection from the University Network or with a valid account.

- The Departmental Student Committee also regularly conducts various evaluations. You can view the results or learn more about them on the
Committee website.

Contacting the Departmental Student Committee:
Questions can be sent to fs@fachschaft.informatik.uni-freiburg.de.

Meetings:
The Departmental Student Committee meets once per week in Room 00-028 in Building 051. You can find out the date and time on the website. You are welcome to attend meetings, just drop by, even if you do not want to participate actively in the Committee’s activities.

Consulting Hours:
If you have a question about your studies or a problem with a professor or instructor, you can talk about it in person with a Committee member during the weekly office hours. You can find out when the office will be open by checking the website. You can also send an email with your concerns to the address already given.

1.1.9.5 Professors

Professors and their assistants are available to give you valuable literature tips, or help you quickly find solutions to problems within their areas of expertise. So do not be shy about asking questions during a lecture or going to the office hours held by your professors and assistants. They also welcome your feedback and are concerned about your well-being. Most of the professors and assistants have internet sites which you can use to contact them. The internet addresses for the various courses will normally be given to you at the beginning of the semester during class. You can use these addresses to find the internet sites for most of the professors. All contact data for the Computer Science professors can be found on the internet at: http://www.informatik.uni-freiburg.de/divisions.

1.1.9.6 Equal Opportunity Commissioner

The Equal Opportunity Commissioners for the Faculty of Engineering are Dr. Tobias Schubert (Computer Science) and Dr. Maria Asplund (Microsystems Engineering). They represent issues of special interest to women students on numerous Faculty committees. They are also the contact person for women with questions about their studies or student life in the University environment. You can reach Dr. Schubert and his deputy Dr. Asplund under the following addresses:

Dr. Tobias Schubert
Department of Computer Science
Georges-Köhler-Allee 051, Room 01-033
79110 Freiburg
Tel.: (0761) 203-8153
Schubert@informatik.uni-freiburg.de

Phd. Maria Asplund
Institut für Mikrosystemtechnik
The Equal Opportunity Commissioners at the Faculty of Engineering do not have a separate internet site. So here is the address for the University Equal Opportunity Commissioner: http://www.gleichstellungsbuero.uni-freiburg.de/

1.1.9.7 Department of Computer Science Internet Presence

You can use the Department of Computer Science website to quickly find any information your professors have posted on the internet. Under the header “Divisions” you will find links to each professor’s research group, where they will list suggestions about topics for term papers and thesis, as well as information about their research areas. Departmental student jobs are also normally posted there. You can visit our website to see all this information and more at: http://www.informatik.uni-freiburg.de/.

1.1.9.8 Faculty Internet Presence

The internet presence of the Faculty of Engineering is concerned with matters that address all students. This is the place to find information about various departmental offices (for example the Examination Office or Library), the current course catalog, industry placements and much more. The internet address is: http://www.tf.uni-freiburg.de/

1.2 The Curriculum

1.2.1 General information about the curriculum

The Master’s program in Computer Science is very flexible. There is no fix schedule for each semester, which means that you will choose which courses you want to take each semester. If you want to complete the program in two years, it is recommended to complete approximately 30 ECTS per semester. Which courses you have to take in order to get the Master’s degree is stated in the exam regulations.

The following diagram shows an example study plan for Master students:
You can find a detailed program description on the following website:
http://www.tf.uni-freiburg.de/studies/prospective_students/application/studienaufbau_en

To find out which courses are being offered in Computer Science, you can check out the module handbook. Here you can find a detailed description of each course offered, its course language, whether it is offered in the winter or summer semester and which books are recommended. The module handbook can be found here:

http://www.tf.uni-freiburg.de/studies/module_handbooks/modulhandbooks.html?

The Course Catalog ("Vorlesungsverzeichnis") shows which courses are offered in a given semester. You can find the Course Catalog online in HisinOne. Just go to “studies offered” and “show university course catalog”. Then select “Technische Fakultät”, “Master of Science”, “Informatik”, “PO 2011”.

1.2.2 Bridging course / conditional courses (Auflagen)

Some of you have been admitted under the condition that they successfully pass one or several extra courses by the end of the second semester. This is stated in your admission letter. If you are not sure whether you have received a conditional admission, please ask the program coordinator.

You have two attempts to pass the respective exam(s). It is therefore recommended to focus on the additional course(s) and exam(s) and not to overload your schedule with too many other courses. The program coordinator will register you for any additional course. However, you do have to register for the exam on your own, using the “General Registration Form” you will find on the following website: http://www.tf.uni-freiburg.de/...
1.2.3 Master thesis

It is strongly recommended that you write your thesis about a topic that is related to one of your chosen concentration areas. The thesis has to be submitted within 6 months. Topic, assigned task and scope of the Master’s thesis are to be defined by the supervisor in such a manner that the deadline for completion of the thesis can be met.

Most supervisors will ask you to write the thesis using LaTeX software. If you are not familiar with this software, you can take a LaTeX course at the computer pool. Alternatively, you may be able to use Lyx. You can find templates for LaTeX and other formats the website of the student representation:
http://fachschaft.tf.uni-freiburg.de/informationen/dokumentvorlagen

1.2.4 German language courses

Unfortunately, German language courses are not part of the curriculum. Nevertheless, acquiring German language skills is recommended, especially if you want to do an internship or find a job in Germany.

You can choose between two types of German language courses: The university’s Language Center (SLI) offers German language courses at all levels every semester. They take place in the evening from 6:30 – 8:00 p.m. and do usually not clash with your courses. For more information and registration, please check out: http://www.sli.uni-freiburg.de/Deutsch-en/dkurse-en. For one semester (60 lessons) the cost is 160 Euro.

Apart from that, there are two private teachers offering German language courses for international students at the Faculty of Engineering. In the coming winter semester they will offer three different levels: A1.1, A2.1 and B1.2. The exact dates and cost for these courses will be sent to you by the end of September.

1.3 How studying works

1.3.1 Lectures

In this section, we would like to give you a few tips about studying in general, and also some suggestions about how you can study more effectively and efficiently. With time, you will discover for yourself which study habits and methods are best for you.

1.3.1.1 Note-taking, Professors’ Lecture Notes and Literature

The notes you take during a lecture are invaluable because you have written down everything which seemed important to you in class. Further, it is easier for you to later go back and find particular points in your own notes.
Sometimes, copies of notes written by your fellow students can also be helpful. You can use them to correct any mistakes you might have made when copying things from the board (as long as your professor wrote down the information correctly in the first place). It is quite unlikely that you and your classmate would have made the exact same mistake when copying something down. Particularly in mathematics courses, it is especially important to have copied down all the figures and symbols correctly. That is why we recommend that you copy notes from one of your classmates as part of your exam preparation. If the professor has provided a copy of their own lecture notes, you can compare your notes with it. But even professors can make mistakes, so if something seems strange or unusual to you, first have a look at the textbook. If you do not find an answer here, ask the professor or their assistant. You need to pay particular attention to textbooks in cases when you have great interest in a certain subject, if your notes are unclear or you have decided to learn the material through self-study. Going through and studying textbooks and scientific papers might take a lot of time, because you first have to accustom yourself to the symbols and terms used by the author. Nevertheless, learning how to obtain and use information from assorted reference sources is a basic principle of scientific research.

Most professors use PowerPoint presentations during class as instructional aides during their lectures. They normally make the visuals which will be presented in class available on the internet for downloading at least one day before a lecture takes place. You can print out these pages and write down your notes directly on the copies. This has the advantage of you only having to supplement the important points which already appear on your copies.

1.3.1.2 Going to Class vs. Self-Study

Under certain circumstances, it may be necessary to learn the material being presented in a particular class by means of self-study. This is the case, for example, when two lectures are being given at the same time.

Self-study requires a lot of discipline. Always make sure you regularly copy notes from a classmate who is attending the course in person. Try and keep up, meaning learn the material as it is being presented in class. If the professor’s lectures are based closely on a book, then we suggest always reading ahead. Then at the end of the semester, you have a bit of breathing space and it is not so bad if you fall a bit behind. There are many advantages to attending the class lectures. Professors often say things which you cannot read in any book. These are often anecdotes from everyday life, or interesting comments about current topics. Of course, attending a class means you have the chance to ask the instructor questions during and after the lecture. This is also possible if you are doing self-study, it just takes more time and effort.

Multimedia lectures incorporate both forms. Here, the lecture is recorded while the professor is giving it. This way, the advantages of attending the class in person and self-study are combined. If you have to miss a class for some reason, you can watch the lecture at home. This gives you more flexibility in choosing the time and place for hearing a lecture. A problem here can be that you do not attend the lecture and then fail to view it later. Please try to avoid
doing this. Make a point of watching the lecture you missed before the next live one is given. Otherwise, it is usually quite difficult to catch up with the material you have missed. You will find the recorded lectures in ILIAS:

1.3.1.3 Tutorial Exercises

1.3.1.3.1 Why do the exercises and are they required?

Tutorials and the exercises you do there are designed to expand on the material covered in the lecture. Working through the exercises is the very best way to prepare for an exam. If you are mostly able to do the exercises correctly, then you should be well on the way to being prepared for the examination. Whether you have to do the exercises, or even achieve a minimum number of points on them, depends on the Examination Regulations. The (successful) completion of the exercise handouts from a lecture may be required before you can be admitted to a particular examination. Regardless of how well you do on the exercises, your goal is to achieve the best grade possible. The examiner can require that you have participated in a tutorial and/or done the exercises before allowing you to sit for an examination. They can assume that you have not participated in the tutorial if you have not worked through the exercise handouts to a certain degree. This means that in the worst case, you must have worked through all the exercises, but need not have reached the correct solutions as successful participation is not required. It is also possible that you may be required to demonstrate your ability to solve certain exercises in order to be admitted to an examination. Again, your demonstration must not be successful. This results in the examiner requiring you to have achieved a minimum number of points on the exercise handouts in order to allow you to sit the examination. Then it can be argued, that you have not participated successfully in the tutorials if you have not correctly worked through the handouts.

You really should do the exercises on the handouts in order to be prepared for your examinations. The same applies for attending lectures and doing the exercises given there.

1.3.1.3.2 How do I work through exercises?

Always make sure you understand the question or problem that needs solving before you start working. You also need to know what form the solution needs to take. The hardest part is getting from how the problem is being posed to the solution. There is no set way of doing this. You will normally need to use your intuition and the knowledge you have acquired during the lecture.

1.3.1.3.3 How do I present the solution to the exercise?

You need to write down your solution in a way that is clear and well organized so that your tutor will be able to read and correct it without difficulty. The most important sections should be highlighted in some way (for example the solutions to mathematical problems). Your tutors, of course, will greatly appreciate it if you type your answers on a computer and print them out. If you turn in handwritten answers, it is a good idea to re-write the solutions so they
are readable and understandable. Meanwhile, electronic exercises are being set, this means you have to create a PDF or PS file and upload it to a given portal.

1.3.1.3.4 Group work, copying and using literature

It can be very useful to work on difficult exercises in a group. By doing so, you are confronted with the terminology used in the lecture and can discuss the lecture subject and themes with your classmates. However, you should only do this, if the lecturer does not insist on everyone doing the exercises by himself. Our experience has shown that it is extremely difficult to succeed in your studies without the use of study groups and the ongoing exchange of ideas and information with your fellow students. Don’t choose your study group members by sympathy or nationality only! Make sure to use the resources of fellow students coming from different academic backgrounds.

Beware of just blindly copying down the work others have done on the exercise sheets. This is a complete waste of time. Only if you are able to follow and understand how the solution was reached, will you have learnt anything. That is why you need to work through as many exercises as possible without outside help.

Usually, the visuals and professor’s notes from the lectures and your own notes should be enough to solve the exercise. It can also be helpful to do a bit of research in books, because there you can sometimes find the needed solution to the given problem, or a variation of it. This helps you solve problems more easily.

1.3.1.4 Examination Preparation

The exercises you receive in the tutorials are a great tool to use when preparing for your examinations. In many classes, the problems found in these exercises have about the same level of difficulty as what you will see on the examination. You will recognize this if: you have a sound knowledge of the material and are able to work through an exercise sheet on your own in about two to four hours. If you need this much time for just one exercise, you will have problems to pass the final examination. Ask around amongst your classmates to find out how much time they needed for an exercise as a way of checking your own level.

The best method for examination preparation is to study and do old exams, especially if they were prepared by the same instructor. This way you can get used to the style used for the exercises and see if you are able to solve the problems in the time assigned. In addition to the old examinations, it also makes sense to work through old exercise handouts as part of your preparation. Sometimes, not all topic areas are presented in exercise form during a particular semester. By working through exercise handouts from previous semesters, you have practice with topics which may not have been worked on in your tutorial. They can also give you extra practice in areas where you want to (or need to) do more work. Carefully read through your notes, and review the visuals and professor’s notes once more. It may be that during an exam, you will have to know particular phrases and definitions in order to answer
certain questions. So take this advice seriously: memorize phrases and definitions! Study sessions in small groups shortly before the examination can be very beneficial. You can learn terminology and solve problems together. Most of your classmates will already have worked intensively on learning the material, so there will be a good basis for discussing any questions or problems. It may be that you have underestimated the importance of a particular topic area. You will normally be able to see if this is so when working with a group.

You can use the internet to look for and download old examinations on the Departmental Student Representative Committee homepage at:
http://db.fachschaft.tf/exams/quick-search

1.3.2 Self-discipline and Self-tracking

No one will constantly be keeping track of your work and progress. You have the freedom to decide for yourself how you structure your studies. This is why it is very important to keep track of your progress. Set goals and make a plan for reaching them.

1.4 Plagiarism

Plagiarism is commonly defined as “the practice of taking someone else’s work or ideas and passing them off as one’s own” (Oxford American Dictionary, Digital Version 1.0.1, 2005).

Important: Papers, exams or exercise sheets in which plagiarism is detected are considered as failed.

Guidelines for avoiding plagiarism include the following:

- Cite all sources of information and ideas (a) where you use them and (b) each time you use them. However, you need not have citations for propositions that qualify as common knowledge.
- If you quote directly from a source, put it in quotation marks (or indent it if it is a long quote) and cite it immediately thereafter. It is not acceptable simply to take a quote, change a few words, and omit the quotation marks. You are still presenting the other person’s expression rather than your own.
- Write in your own voice. The paper is to be your analysis, not someone else’s. You can easily bring in the work of others by using forms such as “According to Smith…”, “The Jones study found that…”, or “Several studies have concluded that…” etc. Sometimes you can simply assert facts or findings by saying them and then following them directly with citations. Conversely, you can write about your own views or analysis by saying “In my view…”, “My analysis is that …”, “Based on my experience…” or other such forms.
- Most of the paper should be in your own words. Direct quotations rarely constitute even 10 percent of a paper, and usually much less. An exception might be when a paper requires close analysis of a fixed text, such as a statute or regulation.
- The last [or second] page of your paper should be a signed declaration
which says: I herewith declare that I have written this paper on my own and that I have not used any other sources and materials than those indicated. I properly cited the materials I have relied upon.

This does not only apply to your master thesis or papers you have to submit during your studies. You also have to follow these regulations when submitting exercise sheets or reports about lab experiments!

For more information go to: http://www.tf.uni-freiburg.de/studies/exams/thesis/thesis_formatting.html

2 The University in Everyday Life
2.1 Preparing for your first semester

2.1.1 Orientation days at the Faculty of Engineering

In the week before the beginning of the courses, the Faculty of Engineering will offer several activities and meetings for new Master students, such as help with the administrative tasks (bank, health insurance, residence permit), information about the study program and the organization of your studies, walkabouts of the campus. It is strongly recommended to participate in these activities.

2.1.2 Guided campus and university tour

On Friday, 21 April, some of the senior students will offer a guided tour of our campus and of some other university facilities in town. Please make sure to attend this tour. It can be very helpful.

2.1.3 Computer Center (RZ) Introduction

On the web page of the university’s Computer Center you can download a brochure describing the IT services for students. The brochure is available in German and English: http://www.rz.uni-freiburg.de/inhalt/dokumente/pdfs/broschueren/studieng

2.2 Buildings and Rooms

2.2.1 Faculty of Engineering

One of the most important buildings is number 101. It houses the Faculty Library, the Dean’s Office, the Examination Office, tutorial rooms and two large lecture halls (101-026, 101-036). The Airport Cafeteria (Mensa, Bld. 082) is another building of central importance for the Faculty of Engineering. A large lecture hall (082-006) and the computer pools are found here. The professorships for Computer Science faculty are in buildings 051, 052, 079, 080 and 106. The Departmental Student Committee and more tutorial rooms
are located in building 051. The Faculty of Engineering is directly next to the new Trade Fair Grounds. The way is clearly marked with numerous signs around the city directing visitors to the “Neue Messe”. You can travel to the Faculty using public transportation. Use tram line no. 4 to the “Messe” and get off at the last stop (Technische Fakultät) or take the Breisgau S-Bahn (commuter train) in the direction Breisach (get off at “Neue Messe/Universität”).

2.2.2 Science Campus (Institutsviertel)

The Science Campus is mainly interesting for undergraduate students. The most important buildings are the cafeteria, the Round Building (“Rundbau”), the Faculty of Mathematics and the Computer Center. Many lectures in mathematics are held in the “Rundbau”. In the Faculty of Mathematics Building, you will find a research library and a lending library for mathematicians and natural scientists. The Computer Center has PC Pools available for your use. The Science Campus is very close to the main train station. You can reach it walking from the main train station on the Bismarckallee direction Zähringen. The Bismarckallee merges with the Stefan-Meier-Straße, which is where the Science Campus is located.

2.2.3 University Center

In the University Center, you will find the University Library, the Main Cafeteria, and the “Kollegien” buildings I to IV (KG I to IV). You can reach the University Center by taking any tram from the main train station in the direction “Bertoldsbrunnen”. Exit the tram at the Freiburg City Theatre, “Stadttheater”, just one stop away from the main train station. From the other direction, you can reach the University with any tram traveling direction “Hauptbahnhof”. Again, exit at the “Stadttheater”.

2.3 Libraries

2.3.1 Library User Card

Your UniCard serves not only as your student identity card, but also your library user’s card. The University Library (Universitätsbibliothek = UB) account number on your card is only valid after having registered online. To register, click here

1. Click on “Ausleihkonto” (right hand side)
2. Enter your university user name and password
3. Scroll down and click on „UB-Konto mit Unicard neu eröffnen“
4. Go to the library and ask them to activate your account

2.3.2 Loss of your Library User Card (same as UniCard)

If you lose your library user card (meaning UniCard that has been activated for library use), you are required to report it immediately to the lending section
(tel.: (0761) 203-3920) or at the service desk in UB 1 (tel.: 0761 203-3918 or at the Faculty library (tel.: 0761 203-8003). Your account will then be blocked because someone else could use your card to borrow books on your account. You can only apply for a new card at the Student Service Center in Sedanstraße 6. This process is explained in the section UniCard, Student Identity Card.

According to the Regulations of Use, you are liable for any misuse of your account.

2.3.3 Borrowing Books

If you are looking for a specific book or article, you should first of all search for it in the library online catalog: http://www.ub.uni-freiburg.de/?id=opac. There, you will see, if the book is available and where it is located.

The main university library is located at Platz der Universität 2. It is open 24/7 and offers a lot of place for self and group study.

At the main library (UB), books may be checked out for 28 days and you can extend the lending period online for another 28 days a total of three times. You may not extend the time if someone else has placed the book on reserve. If there is no copy available of the book you want to borrow, you can have it reserved for you. This means it will no longer be able to be extended and you will be informed as soon as a copy has been returned. You can check out a maximum of 100 books at any one time.

If you forget to return a book in time, you will have to pay a fine (€ 1.50 per book for the first week, € 6.50 for the second week and so on). The library will inform you about this by sending you an email (in German). If you receive such an email and you do not understand what it says, please check immediately with the library.

At the Faculty of Engineering, some of the books can only be checked out over the weekend or at other times when the library is closed. To check out a book, you must present your library-activated UniCard. Books for the weekend may be checked out from Friday and must be returned on Monday.

Some books at the Faculty of Engineering library can be checked out any time. They have the code “SB”. If you lend one of the SB-books, you will get a ticket with the due date. Please don’t lose this ticket. You cannot check the due date online.

As a courtesy to your fellow students who also need to use the books, please always make sure to return the books on the due date or to ask the librarian for an extension.

Please handle the books with care! If you return a damaged book, you will have to pay for it.

Be sure to have a look at the electronic media and learn how to use the data
2.3.4 Libraries relevant for Computer Science students

Here are the four libraries which are of greatest relevance for computer science students:

- University Library (includes Text Book Collection I)
- Library at the Faculty of Engineering
- Text Book Collection II
- Library at the Faculty of Mathematics

University Library:

The main university library (called UB) is located in a brand new building in the city centre, next to the “Stadttheater”. For students it is open 7 days a week, 24 hours a day and offers a lot of space for self-study as well as for group work. More information: https://www.ub.uni-freiburg.de/

Faculty of Engineering Library

This library has books available especially for computer scientists and microsystems engineers and is located directly on our campus:

Faculty of Engineering Library/ Fakultätsbibliothek der Technischen Fakultät
Georges-Köhler-Allee 101
79110 Freiburg
Tel.: (0761) 203-8003
Contact: Susanne Hauser, Julia Kuhn
Email: techbib@tf.uni-freiburg.de
Website: http://www.ub.uni-freiburg.de/?id=3281

Textbook Collection II

You can borrow books about mathematics, natural sciences and medicine from this library.

The Textbook Collection II homepage provides current information, for example about opening times during the semester breaks, at: http://www3.ub.uni-freiburg.de/index.php?id=68

The Faculty of Mathematics Library

At the Faculty of Mathematics Library, you can find books from all areas of mathematics.

Faculty of Mathematics Library/Mathematisches Institut Bibliothek
Eckerstraße 1, Room 022 (Ground Floor)
2.4 Computer Pools at the Faculty of Engineering

2.4.1 Computer Pools in Building 082

2.4.1.1 Location and Purpose

The Faculty of Engineering Pool is located in the cafeteria building (Bld. 082) at the Faculty of Engineering. Pool means a collection of computers and peripheral devices, for example printers, which are networked and all found in one room. There are several such pool rooms in Building 082 on the ground floor. There are also further, smaller pools which are used for certain lectures and lab courses in the other buildings. The purpose of the pool rooms is to provide you with a computer work station that you can use during your studies. An extensive software package is installed on the pool room computers, for example Java, Browser und email clients. You can also print out lecture visuals and professors’ notes and download at high speed. Every student can print an amount of pages worth 6 Euro per month for free. If you print more, you will have to pay for it.

To get a user account, you need to fill out and turn in an application form. You can get this from the Pool Manager or on the internet under:

http://poolmgr.informatik.uni-freiburg.de/?id=62

This is where you can also find the next steps. When you have completed the application process, it will take about 15 to 30 minutes before you can use your account. You will receive an email asking you if you wish to extend your account. If you do not extend your account, it will be automatically blocked and then cancelled. The first place to check for your questions about system and network services is this URL: http://support.informatik.uni-freiburg.de

You can reach the Pool Managers at:
Faculty of Engineering
Building 082, Room 01-021, 79110 Freiburg
Email: poolmgr@informatik.uni-freiburg.de
Homepage: http://poolmgr.informatik.uni-freiburg.de/
or use the contact form on the homepage.
The Pool Managers are students who only work part-time. You can find their office hours here: http://poolmgr.informatik.uni-freiburg.de/?id=3

2.4.1.2 Email Address

After your account for the Faculty computer pool has been set up and successfully activated, you are reachable via email. General information about email addresses and their features can be found on the Pool Managers’ internet site.

You can find out here information about how the Faculty email addresses are compiled, which mail servers are available and how to configure your account. Your email address is: Username@informatik.uni-freiburg.de. Replace the word “Username” with your surname as it appears on your account. If you have an account and an email address, you will automatically be put on the mailing list “Student”. The mails which reach you over this list will keep you informed about all the latest events and activities at the Faculty. In addition, you may sign up for the mailing list “Markt”. The users on that list receive job and internship offers, room offers or different sales offers (bikes, text books, furniture etc.). To sign up, please go to https://support.informatik.uni-freiburg.de/cgi/support/fawmgr.cgi?account:de, enter your user name and password, check “eintragen” and click on “Daten abfragen/ändern”.

If you do not want to check the e-mails sent to your faculty e-mail address on a regular basis, please make sure to forward them to your private e-mail account (gmail, yahoo etc.). Otherwise you will miss out on important information!

2.4.1.3 Opening Hours Computer Pools

Pool room 028: Monday to Friday from 8 am to 7 pm
Pool room 021: Monday to Friday from 8 am to 7 pm
Pool room 029: Monday to Friday from 8 am to 7 pm

If you have activated your UniCard in MyAccount (see chapter 2.7 UniCard), you should be able to access the Pool Rooms with your UniCard from the side entrance after 7 pm and on Saturdays and Sundays. If that should not work, please go to the Dean’s Office (“Dekanat”) in building 101, 2nd floor and ask for your card to be activated.

2.5 WLAN (WiFi)

There are several access points on the campus of the Faculty of Engineering that allow you to access the internet using WLAN (Wireless Local Area Network).

2.5.1 WLAN installation

The WLAN network used by the university is called „eduroam“. To connect, you enter the user name of your university account as follows:
username@uni-freiburg.de. The password is the RAS Password you selected in MyAccount (see chapter 2.6.2). For laptops, VPN client might be necessary.

You will find detailed instructions for how to connect to our WLAN here:


2.5.2 Where is WLAN available?

As already mentioned, you can find Access Points all over the place at the Faculty of Engineering which you can use to connect to the University network. Access Points can also be found at numerous other faculties. To see an exact list of all the WLAN access points, go to the following address: http://www.rz.uni-freiburg.de/services/netztel/wlan-vpn/wlan-standorte

2.6 Computer Center (Rechenzentrum)

2.6.1 Location and Purpose

The university’s Computer Center is located at the Science Campus at the following address:

University of Freiburg Computer Center
Hermann-Herder-Straße 10
79104 Freiburg
Tel.: (0761) 203-4620
Email: sek@rz.uni-freiburg.de
Opening hours: http://www.rz.uni-freiburg.de/rz/oeffnungszeiten

The Computer Center serves many purposes. Some of them are:

2.6.1.1 Workstations

The Computer Center has PC workstations outfitted with standard software (for example Office package and graphic programs) available for students. You can use them for academic work, internet research or to check or write your emails. They can be found at the Main Computer Center. To use these computers you log in with your university user account.

2.6.1.3 WLAN

See 2.5.1

2.6.1.4 Printing Services

The Computer Center has printers available for students at the PC workstations so that you can print out your documents. At the Computer Center, printing cost is paid through a separate printing account. You cannot
print anything unless you have a positive balance in your printing account. You can pay into your printing account via MyAccount: https://myaccount.uni-freiburg.de.

2.6.2 University User Account

As a newly matriculated student, you should receive an e-mail and a letter with your user ID and initial password for the University user account. The user ID will be the first letters of both, your first and your last name as well as a number. The password is just an initial password. You can manage your account by using the following URL: https://myaccount.uni-freiburg.de

The first time you log in, you have to take the following steps:

- Change the initial password by choosing a new one
- Choose the email address you want the university to use when they need to contact you
- Activate your UniCard

Only after having taken these steps, your user account will be activated.

Please make sure to enter your current e-mail address in MyAccount, or have your e-mails forwarded. The e-mail address that is stated in MyAccount is automatically given to the student registry and to the examination office. If you have not received a user ID from the Computer Center, then you need to contact the Computer Center User Services at nutzerservice@rz.uni-freiburg.de. You can also go to their offices at Hermann-Herder-Straße 10 (ground floor, room 001). User Services is open from Mon to Fri from 9 am to 12 pm. You should have your UniCard with you at all times anyway, but make sure you take it with you to User Services for opening an account. You should also contact the User Services if your password or user ID is not accepted. If you should forget your password, you can create a new one through MyAccount.

With your university user account you can use the Campus Management for exam registration, checking exam results, printing a transcript of marks (“Leistungsübersicht”) or a confirmation of enrollment (“Studienbescheinigung”).

You need two user accounts: The university user account for using the services of the Campus Management System HisinOne and the user account from the Faculty of Engineering (see 2.4.1.2) for being able to receive information from the Faculty of Engineering.

2.7 UniCard, Student Identity (ID) Card

The UniCard is a chip card that bundles many functions. Its most important function is to serve as your official student ID card. You should have it with you at all times so that you can take advantage of the many bonuses and discounts available to you because of being a student. The UniCard simplifies various
administrative procedures for students and University employees. Use it for cashless payment in the cafeterias, as your library user, copy and right to enter University facilities card. You need it as an authorized parker or to buy and use your semester ticket.

The UniCard team provides you with more information about the UniCard at: http://www.studium.uni-freiburg.de/service_und_beratungsstellen-en/unicard-en. This is the place to go with all your questions about the UniCard.

2.7.1 Functions

The UniCard has the following functions and features:

• Forgery Safe Student ID

As explained above, your UniCard is your student ID card. You have to renew the imprint on it every semester. Do this, for example, at the self-service terminal in the ground floor of Building 101 at the Faculty of Engineering (near the elevator).

• Cashless payment in the Cafeterias (Mensen)

You use your UniCard to pay in the University cafeterias to get the special rates for students and to avoid cash payment. In order to pay with your UniCard, it must first be loaded, meaning it needs to have a positive balance. You can load your UniCard through use of your EC bank Card at the add-value terminals. Information about where to find add-value terminals and cashless payment can be found under the following address: http://www.swfr.de/en/food-beverages/chip-card/load-up/

• Library User Card

This feature has already been explained in the Library section (chapter 2.3).

• Entrance to Buildings and Rooms

At the Faculty of Engineering, you can enter buildings and rooms outside of the normal opening hours by using your UniCard. (You can find out more about this in the section Computer Science Pool Rooms.)

• User ID for copy machines

At the Faculty of Engineering, you can use your UniCard at the copy machines. The copying costs will be deducted from your UniCard balance.

• RVF Semester Ticket for Public Transportation ID Card

If you have an RVF Semester Ticket for public transport, you always have to have your UniCard with you. Otherwise, your semester ticket is not valid.

2.7.2 Receiving and Activating your UniCard
After matriculating at the University you will receive the UniCard automatically by post.

If you should not get the UniCard within 2-3 weeks after matriculation, please go to the UniCard service desk in Sedanstraße 6. It often happens that students do not give their complete address to the university administration when enrolling (for example, when you live in a student dorm, your address is only complete if it contains the street, house number, floor number and room number as well as the zip code and the city). Or, sometimes the student’s name is not stated on the mailbox. In these cases, the postman will return the letter to the sender.

Once you have got your card, you just have to go to one of the UniCard terminals, insert your card and wait two minutes. It is then activated. If you do not have it activated, it is not a valid student ID. You will pay more for your meals in the cafeterias and cannot use it to buy and use the semester ticket.

If you have not received your UniCard, or have questions about it, contact the UniCard team at:

Albert-Ludwigs University
- UniCard -
Sedanstraße 6
79098 Freiburg
Tel.: (0761) 203-8893
Email: unicard@uni-freiburg.de

The UniCard Team office hours are held in the Student Service Center on the ground floor. You can find out the current office hour times on the internet site: http://www.studium.uni-freiburg.de/service_und_beratungsstellen-en/unicard-en

2.7.3 UniCard Loss

If you lose your UniCard, you should have it cancelled immediately. To do this, you need your PUK number. This was sent to you in the letter containing data about your card. To cancel your UniCard, contact the UniCard Team and give them your name (last name, first name), your matriculation number and your PUK number. You can reach the UniCard Team via email at: unicard@uni-freiburg.de. You can call the UniCard Team under the number (0761) 203-8893 (during office hours) or at (0761) 203-8810 (outside of office hours). If you have lost your card and do not reach anyone by phone, make sure to leave a message on the mail box. When the UniCard Team gets your message, your UniCard will be blocked as soon as possible in order to prevent it being misused. You should consider the balance on your card to be the same as cash you have in your wallet. This means if you lose your UniCard, the balance on the card is gone too. In order to issue a new UniCard, the Team needs your photo and, at the moment, the fee of € 10.

You must also immediately inform the University Library Lending Section about the loss of your UniCard under the number: 0761/203-3920). Your library user account will also be blocked because if someone else has your account number they could use the public OLAF places to check out books using your account. Please note: According to the University Library User Regulations, you are liable
for any misuse of your account. You must report the loss of your UniCard to the library separately because there will not be an exchange of information regarding UniCard losses between the Library and the UniCard team.

2.7.4 Extending your Card

Your UniCard is only valid up to the date on the card’s imprint. In order to keep using all the card’s functions, you must have it extended every semester. You can do this at the UniCard terminals. When you have the card extended, the imprint is automatically renewed.

2.8 Course Transcript Booklet

Your Course Transcript Booklet is the little green notebook you received when matriculating. In general, it is evidence of your academic achievement at the University. Due to the electronic administration of examination results, the Course Transcript Booklet is losing relevance. However, it is recommended to keep a copy of your “Studienbescheinigungen” (registration confirmation) of each semester and any leave of absence semesters in the booklet. After completion of your studies you will need the Course Transcript Booklet for exmatriculation. You should therefore keep it in a safe place.

2.9 Re-registration and administrative Fees

Every semester, you must re-register in order to continue your course of study. You will find the current demand of payment and the deadlines at http://www.studium.uni-freiburg.de/studium-en/rueckmeldung-en. You must transfer the named amount before the re-registration period ends, otherwise, you will be ex-matriculated. Registration for the summer semester has to be done from January 15th – February 15th, registration for the winter semester from June 1st – August 15th.

Students who received a conditional admission also have to pay the fees within the above mentioned time frame. However, the registration for the following semester will only become effective, once they have passed the exams of the conditional course(s). That means for these students that they can only renew the imprint on the UniCard and print the confirmation of enrollment (Studienbescheinigung) once the conditional exams have been graded.

2.10 Cafeteria/Mensa

The cafeteria (Mensa) offers an inexpensive way for you to ensure that you have a healthy and balanced diet. The Student Union operates four cafeterias in Freiburg. They are located in the Rempartstraße, at the Science Campus, in Littenweiler and at the airport (Faculty of Engineering). The meals and snacks offered at the various cafeterias can differ. Studierendenwerk provides you with more information about
the cafeterias at: http://www.swfr.de/en/food-beverages/canteens-cafes/info/

2.10.1 How things work at the cafeteria:

Before you can eat at the cafeteria, your UniCard must be activated. You also need to make sure that you have used an add-value terminal to load a sufficient balance into your account. This is how a typical visit to the cafeteria at the Faculty of Engineering works:

1. Queue up in the line.

2. Take a tray, knife, fork, spoon and napkin.

3. Have a look at the menu and decide which one of the two meals you want (one of them is always vegetarian).

4. When it’s your turn, tell the ladies who serve the food, which meal you would like (or choose one of the already served meals).

5. You pay by putting your card on the bar code scanner at the checkout. Wait until the amount has been booked (green light), and then your payment is complete.

6. After paying, you can look around for a place to sit.

7. When you have finished eating, you must take back your tray to the tray return area and separate the remaining food, the plate and the cutlery.

Some words you might need to know for your visit to the cafeteria:

<table>
<thead>
<tr>
<th>English</th>
<th>German</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetarian</td>
<td>Vegetarisch</td>
</tr>
<tr>
<td>Beef</td>
<td>Rind or Kalb</td>
</tr>
<tr>
<td>Pork</td>
<td>Schwein</td>
</tr>
<tr>
<td>Chicken</td>
<td>Huhn, Hähnchen oder Hühnchen</td>
</tr>
<tr>
<td>Turkey</td>
<td>Pute</td>
</tr>
</tbody>
</table>

2.10.2 Airport Cafeteria (Mensa Flughafen)

The Airport Cafeteria is used mainly by students and staff of Computer Science, Embedded Systems and Microsystems and Sustainable Systems Engineering. Located on the premises of the Faculty of Engineering, this cafeteria is the smallest of those in Freiburg. Plans are being made to enlarge it, but realizing them will take quite some time. Until the renovation happens, the cafeteria here offers two daily specials (one of them is always vegetarian).

Cafeteria Airport
Georges-Köhler-Allee 082
79110 Freiburg
Opening Hours During the Semester:
Mon to Thu 9 am to 3 pm
Fri 9 am to 2:30 pm
Lunch is served from:
Mon to Fri 11:30 am to 1:30 pm

A meal costs 2.75 Euro (without drinks).

You can have a look at the meal plan for the current week under the address:

Find out more information about the Airport Cafeteria under the URL that follows:

2.11 Semester Ticket

2.11.1 What is a semester ticket and where, and for how long is it valid?

The semester ticket is valid for using public transportation. It costs you € 94 per semester, and you can use it on the entire public transport network (bus, trams, S-Bahn, local trains) in the greater Freiburg area. (RVF) This area includes:

• The city of Freiburg
• The area Landkreis Breisgau-Hochschwarzwald
• The area Landkreis Emmendingen

Students at all of Freiburg’s institutions of higher education can take advantage of this offer. The tickets are valid from October to March (winter semester) and from April to September (summer semester) and include the times between terms. Every student makes a solidarity contribution of € 17 per semester which is included in the social contribution you pay to the university. Because of your solidarity contribution, you may use the public transport for free from 7:30 pm to 3:00 am, even if you have not purchased a semester ticket.

Your ticket is only valid if you have your activated and valid UniCard with you when you are traveling. You must write your name and matriculation number on the ticket and also sign it, otherwise, you may have to pay a € 60 fine for “fare jumping”.

More information about the semester ticket can be found under the following URL: https://www.rvf.de/en/fahrkarten-tarife/monatskarten-abos/semesterticket-for-students/

2.11.2 Where can I buy a semester ticket?

You can purchase a semester ticket at the following offices and agencies:

• at the “VAG-Pluspunkt” (Customer Service Center for the Freiburg Transportation Agency, Salzstraße 3, near the Bertoldsbrunnen)
• at the SBG Customer Service Center at the Central Bus Station next to the Main Train Station (ZOB)
2.12 Jobs

2.12.1 HiWi Jobs

HiWi is short for Hilfswissenschaftler which is a research assistant. As a student you are technically allowed to work up to 85 hours per month as a HiWi. If you want to earn some money or if you want to gain practical experience, it is recommended to look for a HiWi job that is closely related to your study field. There are several ways how HiWi job vacancies are being posted:

- On the web pages of the different Computer Science professorships
- By e-mail to the student mailing list
- On the notice board in building 101, ground floor
- By word of mouth

If you already have experience in a certain field or if you know in which research group you would like to do your final project, it is best to just ask the respective staff members for a job. When applying for a job you should always send soft copies of your CV and transcript of marks (from Bachelor’s and or Master studies) and highlight in the email those of your qualifications which match the job description. General inquiries by email not containing these documents are often not answered.

2.12.2 Off-campus student jobs

There are five Fraunhofer Institutes (research institutes) in Freiburg who often offer student jobs. Just check out the nationwide Fraunhofer job database: https://recruiting.fraunhofer.de/Jobs/1?Reset=G&lang=ger&searchFunction=10050&search1

If you are looking for a job for the semester break or for short term jobs (baby-sitting, Santa Claus, working in the production of an industrial plant), you should check out Studijob: http://www.swfr.de/en/money/studijob/

2.13 Internships/Industrial Placements

An internship or industrial placement is not a mandatory part of the Master’s curriculum. However, if you want to, you can do such internship voluntarily. The best time to do that is in the second year. If you combine the internship with a master thesis, you can still complete the Master program in 4 semesters. If not, you should be ready to stay one more semester. Internship offers can be found:

- On the notice board of building 101 (ground floor)
- Via job portals in the internet
- Via the mailing list markt@tf.uni-freiburg.de

• at all German Rail travel agencies (DB-Reisezentren)
• at VAG online shop: http://www.vag-onlineticket.de/
• at the distributors of Deutsche Bahn (German railways)
More information about these placements can be found at:
https://www.tf.uni-freiburg.de/studies/services/jobsplacements

If you want to write your thesis in cooperation with a company, please ask some professors at the Faculty of Engineering about their company contacts. Some research groups run projects with specific companies or have had good experiences in sending students to specific companies. A thesis always has to be supervised by a professor from the Faculty of Engineering. You should therefore first make sure that supervision is offered before looking for a company or research institute.

3 Further Sources of Information and Assistance

3.1 Student Services (Studierendenwerk)

The Student Services of Freiburg has about 300 employees serving over 40,000 students who are pursuing their higher education goals at the area’s institutions of higher learning. In addition to those institutions in Freiburg, the Student Services are responsible for students in Furtwangen/Villingen-Schwenningen, Offenburg/Gengenbach and Kehl. The Student Services are financed in part through the social fees which you pay to the university each semester.

The following highlights a few of the interesting services and activities offered by the Student Services. The “Studi-Tours” department regularly organizes short trips and excursions. Going on them is a great way to meet lots of people from other faculties and countries. You can have a look at the current Student Services program of events at:
https://www.swfr.de/en/international/the-international-club/studitours/

Studierendenwerk’s International Club offers a buddy program, a tandem program (learning German with help of German students), a “families for international friendship” program and lots of cultural events:
http://www.swfr.de/en/international/the-international-club/info/

In addition to running the cafeterias, the Student Services also operate various student housing facilities. You can get information about student housing here:

The Student Services also can give you information about, and help you find financial aid possibilities, for example with student loans and scholarships. For more details, contact the Student Services directly or have a look at the website:

At the Student Services, you can also get assistance and advice with such issues as legal questions, social or psychological problems (for example exam nerves) or finding a job or a room. More information can be found in the internet under:
http://www.swfr.de/en/beratung-soziales/beratungsstellen/

You can also drop by the information office:
Student Services Freiburg
3.2 University Recreational Sport

The University of Freiburg offers a wide-variety of opportunities for its students to participate in athletics and sports on a recreational basis. You can take part in numerous sport classes, most of them at no charge. Additionally, there are other classes that require you to pay a course fee. You can visit classes for competitive games like soccer, learn a martial art or indulge your passion for outdoor or individual sports. Or maybe you are more interested in keeping fit with gymnastics, fitness training or dance? These are just a few of the activities available for you in the course program. The University Recreational Sport Program can be found at [http://www.hochschulsport.uni-freiburg.de](http://www.hochschulsport.uni-freiburg.de).

You can register for courses online or visit the University Recreational Sport Office at:

University Recreational Sport Office at the University of Freiburg
Faculty of Sport und Sport Science
Schwarzwaldstraße 175
79117 Freiburg
Tel.: (0761) 203-45 13 or 4503
Email: ahs@sport.uni-freiburg.de

3.3 Social Aspects

3.3.1 Meeting People

At the beginning of your first semester, everything is new and a bit strange, and normally, you do not know anyone here. The easiest way to meet new people is in the tutorial groups. Here the number of other students is small enough so as not to be overwhelming. Lectures present a bit of a different situation, but do not be shy about speaking to the people sitting around you. After all, they are all in the same boat as you are! Most of your classmates will be glad if you make the first move here, because then they do not have to do it themselves. If the lecture is just before lunch, you might suggest going to the cafeteria together, as it is a good idea to try and sit with people from your classes, especially at the start. You also have plenty to talk about in regards to your studies. This is a topic of interest to everyone and so there will be lots to say.

International students tend to stick together and not get involved with German students. However, we would like to encourage you to get in touch with other German students. Speak to German students living in the same house, look for a buddy or a tandem partner ([http://www.swfr.de/en/international/the-international-club/tandem/](http://www.swfr.de/en/international/the-international-club/tandem/)), get in touch with German students on our campus. Germans might seem a bit “cold” in the beginning, but if you get to know them better, they can be very nice 😊.
3.3.2 Where you can get involved

There are many opportunities beyond your course of studies to be involved and take part in extra-curricular activities. There are various student committees, a debate club for students, the University Radio, the academic film club and many, many more places for you to meet new people with similar interests. The following list gives you internet addresses from a whole host of organizations where you are welcome to participate. You can get details about the individual groups by clicking on the corresponding link on the list at: 

4 Annexe
4.1 An Overview of the Most Important Links

University Freiburg
http://www.uni-freiburg.de/?set_language=en

Department of Computer Science
http://www.informatik.uni-freiburg.de

Faculty of Engineering
https://www.tf.uni-freiburg.de/

Semester dates

Deadlines for course registration
https://www.tf.uni-freiburg.de/studies/calendar/dates.html#belegungallgemein

Examination periods
https://www.tf.uni-freiburg.de/studies/exams/calendar/exam_dates.html?

Deadlines for exam registration
https://www.tf.uni-freiburg.de/studies/calendar

Online Lectures on ILIAS
https://ilias.uni-freiburg.de/login.php

Contact persons:
http://www.tf.uni-freiburg.de/studies/academicadvising/

HisinOne (for course and exam registration, course catalog, etc.)
Pool Manager, Faculty of Engineering
http://poolmgr.informatik.uni-freiburg.de/

WLAN (WiFi)

Student Services
http://www.swfr.de/en/

German language courses
http://www.sli.uni-freiburg.de/german

International Admissions and Services

International Office
https://www.international.uni-freiburg.de/front-page?

Dormitories
http://www.swfr.de/en/wohnen/wohnheime/

Finding private accommodation
http://www.swfr.de/en/wohnen/zimmervermittlung/
http://www.wohnungsdatenbank.uni-freiburg.de/
http://zypresse.com/kleinanzeigen/mieten-vermieten/
http://www.schnapp.de
http://www.wg-gesucht.de

University Recreational Sport
http://www.hochschulsport.uni-freiburg.de/

University Library
http://www.ub.uni-freiburg.de

Computer Center
http://www.rz.uni-freiburg.de

Train schedules
http://www.bahn.de/p/view/index.shtml

Scholarships

Trips and excursions and other activities
https://www.swfr.de/en/international/the-international-club/studitours/

International Club
http://www.swfr.de/en/international/the-international-club/info/
4.2 Overview of the most important Dates and Deadlines

The following is a list of the most important dates and deadlines for winter semester 2017/18.

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 Sep – 12 Oct 2017</td>
<td>Matriculation (registration) in the IAS office in Sedanstrasse 6</td>
</tr>
<tr>
<td>9 – 13 Oct 2017</td>
<td>Orientation week at the Faculty of Engineering</td>
</tr>
<tr>
<td>16 Oct 2017</td>
<td>Beginning of lectures</td>
</tr>
<tr>
<td>31 Oct and 1 Nov 2017</td>
<td>Public holiday (no lectures)</td>
</tr>
<tr>
<td>23 Dec 2017 – 8 Jan 2018</td>
<td>Christmas break (no lectures)</td>
</tr>
<tr>
<td>15 Jan – 15 Feb 2018</td>
<td>Registration for the summer semester</td>
</tr>
<tr>
<td>9 Feb 2018</td>
<td>Last day of lectures of the winter semester</td>
</tr>
<tr>
<td>12 Feb – 31 Mar 2018</td>
<td>Examination period of the winter semester</td>
</tr>
<tr>
<td>16 April 2018</td>
<td>Beginning of lectures of the summer semester</td>
</tr>
<tr>
<td>18 Sep – 12 Oct 2017</td>
<td>Matriculation (registration) in the IAS office in Sedanstrasse 6</td>
</tr>
<tr>
<td>9 – 13 Oct 2017</td>
<td>Orientation week at the Faculty of Engineering</td>
</tr>
</tbody>
</table>

4.3 Overview of the most important contact persons

**Dean of Studies:**
Prof. Hannah Bast, Tel. 203-8163, bast@informatik.uni-freiburg.de

**Study advisor:**
Martina Nopper, Tel. 203-8169, studienberatung@informatik.uni-freiburg.de

**Program Co-ordinator:** Ursula Epe, Tel. 203-8340, studienkoordination@tf.uni-freiburg.de

**Examination office:** Annika Hartwig, Tel. 203-8083, Susanne Stork, Tel. 203-8087, pruefungsamt@tf.uni-freiburg.de

Keep the examination schedule in mind when planning your holidays!
Impressum

Sixth Edition, August 2017
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The Department of Computer Science
Georges-Köhler-Allee 101
D-79110 Freiburg
www.informatik.uni-freiburg.de
Participants:
Ursula Epe
Gina Billy

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Glossary

c.t.

This is the abbreviation for “*cum tempore*”, which is “with time” You see it after the time listed for a course or event to begin. What it means is that if the given start time for a course is, for example, 10 am c.t., the actual start time is punctually 15 minutes after the time given, so at 10:15 am. If you see s.t., which stands for “*sine tempore*”, after the course or event start time, then the course or event will begin at the exact time named. 10 am s.t. really means the class or event starts punctually at 10 am. If neither c.t. nor s.t. appears, than c.t. applies.

Course Catalog (*Vorlesungsverzeichnis VVZ*)

This is a list of all courses and events at the University organized according to the faculties. Many faculties also place their Course Catalog on the internet and these are usually more up-to-date than the printed versions. Some faculties also provide course catalogs which contain comments. These provide more detail and information.

Credit Hours (*Semesterwochenstunde*)

The number of credit hours assigned to a course denotes how many hours per week the particular course is held. A lecture, for example that is assigned four credit hours, meets four hours each week during the semester. An hour here means 45 minutes.

Dean (*Dekan*)

The Dean is the head of a Faculty. They represent faculty interests and the Dean serves as Chairperson of the Faculty Committee.

Dean of Studies (*Studiendekan*)

The Dean of Studies must ensure that there are a sufficient number of courses being offered. They are also responsible for the establishment and implementation of regulations for courses of study and examinations. Additionally, they devise class schedules and are the contact person in case of problems with academic matters.

Dean’s Office (*Dekanat*)

The Dean’s Office is responsible for the administration at a Faculty.

ECTS

ECTS stands for European Credit Transfer System. For each course you successfully complete, you will get a certain number of ECTS credit points. The credit points are calculated based on the estimated student work load for the course. One ECTS credit point corresponds to 30 hours of student work (including
classes, class preparation, exercises, exam preparation etc.). To get the Master’s degree you have to obtain 120 ECTS points.

Faculty (Fakultät)

A faculty is a section, or college at a university. It may include more than one department. For example, the Faculty of Engineering includes the Department of Computer Science, the Department of Microsystems Engineering and the Department of Sustainable Systems Engineering.

Hiwi

HiWi is short for Hilfswissenschaftler, which means something like research assistant. Hiwi jobs are offered by the university to students. Depending on their academic degree HiWis earn 9 to 10 Euro per hour.

Matriculation Number (Matrikelnummer)

This is your personal student identification number.

Mensa

Latin word used in German for the cafeteria at the university.

Module (Modul)

A module is a unit of study for which you will receive one note in your final transcript of grades. Examples are lectures, seminars and lab courses.

Module Handbook (Modulhandbuch)

The Module Handbook (or syllabus) describes the content of all the courses in your program of studies which you can choose from, and receive credit for. (Modules)

Pool

A pool is a collection of networked computers and peripheral equipment found in one room.

Pool Manager

The pool manager is in charge of the student pool located in the Airport Cafeteria Building at the Faculty of Engineering.

Semester

This is the word used to describe the academic half year or term. In Germany, the academic year is divided into the winter semester (WS) from October to March, and the summer semester (SS) from April to September.
Semester Ticket

This is a special student ticket for using methods of public transportation in Freiburg and its surroundings which is valid for one semester.

s.t.

See c.t.

Student Services (Studierendenwerk)

An administrative organization at an institution of higher learning responsible for operating cafeterias, assigning student housing and over-seeing student dormitories. The Student Union also offers numerous advisory services for students.

TF

Abbreviation for the “Technische Fakultät” (Faculty of Engineering).

WG

Short for “Wohngemeinschaft” which is usually a group of students who share a flat.

1 MAOT Students’ Guide, Universität Erlangen-Nürnberg, October 2011
2 MAOT Students’ Guide, Universität Erlangen-Nürnberg, October 2011
3 MAOT Students’ Guide, Universität Erlangen-Nürnberg, October 2011
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5 Source: http://www.fem.uni-freiburg.de/div/pdf/regulatiohns/exam_info_fem