

Info Package and Course Catalogue

Academic Year 2008-2009

Saarland University



Medical Faculty



SOCRATES – ERASMUS – LLP

European Community Action Scheme for the Mobility of University Students



ECTS

European Community Course Credit Transfer System

www.uks.eu/erasmus

Revised Version
Winter semester 2008 / Summer semester 2009

Authors:

Dr. med. Kurt W. Becker
Clare Menzel-Dowling MBChB, M.R.C.P.
Univ.-Prof. Dr. med. Ernst-Wilhelm Kienecker

Revised in 2008 by:

Florian S. Schmitz, M.D.
ECTS Departmental Coordinator

Translation: John Heaven, Birmingham/ UK

Saarland University
Medical Faculty
Dept. for Study and Teaching Affairs
D - 66421 Homburg/Saar
Tel: +49 (0) 6841-162 6001/- 6072 Fax +49 (0) 6841-162 6324
ects@uks.eu

Sokrates – Erasmus – ECTS Saarland University Medical Faculty

ERASMUS is an acronym for the European Union's "European Community Action Scheme for the Mobility of University Students". It has changed university education, and many students' approach to it, in order to work towards a pan-European education system. Founded in July 1987, the ERASMUS programme was developed, standardised and perfected over the course of several stages, or 'actions'. Its aims included promoting and intensifying cooperation between universities in EU member states. At first only for teaching staff, and then later also for students, this meant the opportunity to spend a length of time getting to know not only the society, culture and economy of another EU member state but also – and especially – its way of working and thinking academically. "Action 1" of the programme served to create and maintain contact between European universities. "Action 2" provided grants for students travelling overseas within the context of existing university cooperation programmes. "Action 3" saw the creation of a "European system for the reciprocal academic recognition of marks and diplomas" (ECTS - European Course Credit Transfer System). With the help of supporting measures, "Action 4" was aimed at further promoting the mobility of students in the community. Saarland University played a significant role in formulating all measures related to medicine.

Now, ERASMUS and ECTS are sub-programmes of SOCRATES, the community action programme of the EU for cooperation in education. SOCRATES, signed off on 14th March 1995, unites all forms and stages of general education in a single programme, which sets it apart from earlier actions relating to education. SOCRATES applies to all member states of the European Union – as well as Iceland and Norway, which can take part in the context of the EEA – and Switzerland. The programme is founded upon the basis of articles 126 and 127 of the Maastricht Treaty, which provide that the European Union contribute "to the development of quality education"; and this with the help of a series of actions that are to be carried out in close cooperation with member states.

Within SOCRATES, ERASMUS is dedicated to university education. The ERASMUS programme should make possible a European dimension within university education, *inter alia*, through promotion of student and lecturer mobility (for example with the help of mobility grants and facilitating the recognition of marks awarded in foreign countries).

At the same time, it should contribute to a quantitatively and qualitatively improved awareness of the languages and cultures of the European Union in order to strengthen the solidarity between the peoples of the European Union and to promote the intercultural dimension of education in order that, through wide and intensive cooperation between educational institutions from all member states, intellectual and pedagogic potential can be used more effectively.

Since 1988, the possibilities that ERASMUS offers, especially to students, have been used in a multitude of cooperation programmes between European faculties. In the field of Medicine, Saarland University is amongst the pioneers and most active ERASMUS participants.

Saarland University's Medical Faculty has made a significant contribution to developing ECTS. The "European Community Course Credit Transfer System" is a pan-European system for the academic recognition of grades and diplomas. This programme enables students who have completed a university degree, or part of one, to have their grades recognised by universities in other member states. The system, building upon the allocation and transfer of academic credit points for student grades, was developed into a pilot project by 145 EU and EFTA universities, including 28 medical faculties, and tested between 1989 and 1995. The medical faculty of Saarland University provided the greatest proportion of participating students during the pilot phase. Well over 1000 Saarland University medicine students have been able to take part in ECTS and several hundred medicine students from other European countries have completed a part of their education in Homburg. ECTS facilitates and supports the academic recognition between partner universities through effective and generally applicable mechanisms. ECTS is a beacon of good practice in academic recognition because it promotes more transparency of timetables and grades.

In no way does ECTS determine or alter the content, structure or equivalence of courses in member states. ECTS only concerns itself with quality benchmarks, which universities themselves have to agree in bilateral and multilateral cooperation agreements.

The ECTS programme was – following the preparatory year 1988-89 – conceived as a six-year pilot phase for the period between the academic years starting 1989 and 1994. A limited number of universities, whose experiences during and after the programme were systematically evaluated, were chosen for the project. Saarland University was involved from the start of the ECTS programme. In addition to the original 16 medical institutions, a further 12 were accepted into the "inner circle" of the "medical group". Hence, from the academic year 1992/93, a total of 28 faculties active in the area of medicine took part in ECTS. At the beginning of 2004, 34 European medical faculties were members of

the ECTS “inner circle”. As a result, Saarland University Medical Faculty (with its additional ECTS cooperation agreements) can exchange students with a total of 38 faculties.

At the May 2004 Inner Circle Medical Group annual conference, it was decided to disband the group, to found the ECTS Medicine Association, and to transfer all member faculties to the Association in order to continue past work on a certain and future-oriented basis.

In the current climate, the tried and tested ECTS has proven itself to be the best currently available model for recognising grades in Europe as far as Medicine is concerned. Today, any university in the EU can operate this system for the benefit of its students.

The most important characteristic of ECTS is the principle of **mutual trust and confidence** in tutors' academic assessment of participating students' achievements whilst at a guest university. Participation in ECTS is voluntary and each university chooses its own partner. ECTS is intended to create more transparency, build bridges between universities and grant students a larger and more interesting and varied course of study. With the help of the collectively agreed ECTS assessment methods (credits and grades), achievements made abroad can be recognised much more easily. Beyond that, the ECTS system allows a better understanding of national assessment methods. The application of ECTS is based on three principles:

Information about university courses and achievements, mutual understanding between the partner universities and students, and the award of ECTS credits for work that students have completed.

Each university has an ECTS Departmental Coordinator, who also concerns himself or herself with all aspects of the programme, whether relating directly to the discipline or to the course. He/she deals above all with the academic aspects of the programme: developing a system of “credit points”, preparing the content of the faculty's “information package”, as well as choosing, advising and monitoring participating students. From the “information package”, students and lecturers can learn all about the universities, faculties and disciplines; about the organisation and structure of the courses and about lectures and seminars.

Exchange Agreements ERASMUS/LLP Academic Year 2008-2009



University	Outgoing	
	Persons	Months
Belgium		
Antwerp - University of Antwerp	3	10/30
Brussels - Université Libre de Bruxelles	2	10/20
Finland		
Kuopio - University of Kuopio	1	10
Turku - University of Turku	1	12
France		
Nancy - Université Henri Poincaré	9	5/45
Paris - Université Pierre et Marie Curie	1	10
Rennes - Université de Rennes	4	9/36
Straßbourg - Université Louis Pasteur - Strasbourg I	5	9/45
Greece		
Kritis - Panepistimio Kritis	1	6
Thessalonikis - Aristoteleio Panepistimio Thessalonikis	1	9
Italy		
Bari - Università degli studi di Bari	1	5
Foggia - Università degli studi di Foggia	1	12
Napoli - Università degli studi di Napoli Federico II	3	10/30
Perugia - Università degli studi di Perugia	5	6/30
Netherlands		
Leiden - Universiteit Leiden	2	6/12
Norway		
Bergen - University of Bergen	2	5/10
Oslo - University of Oslo	2	5/10
Poland		
Lodz - Uniwersytet Medyczny	1	9
Kraków - Uniwersytet Jagiellonski	1	12
Portugal		
Coimbra - Universidade de Coimbra	3	10/30
Switzerland		
Basel - Universität Basel	2	6/12
Lausanne – Université de Lausanne	2	10/20
Spain		
Oviedo - Universidad de Oviedo	2	9/18
Tenerife - Universidad de La Laguna	3	9/27
Valencia - Universidad de València	2	10/20
Valladolid - Universidad de Valladolid	2	10/20
The Czech Republic		
Praha 01- Karls-Universität Prag	2	6/12
Praha 05- Karls-Universität Prag	3	12/36
United Kingdom		
Leicester - University of Leicester	3	10/30
Manchester - The University of Manchester	3	6/18

It is the duty of the Departmental Coordinator to co-ordinate all ECTS activities within his/her department. (As well as the Departmental Coordinator there is an Institutional Coordinator, who takes up contact with other international cooperation programmes, the offices and agencies in Brussels and the national agency for administering grants; in Germany, this is DAAD (*Deutscher Akademischer*

Austauschdienst).

All ECTS courses offered by participating universities are standard courses. Home students take the same courses in compliance with the appropriate university regulations. The Course Credit Transfer system is based upon 'credit points'. Participating universities award a maximum of 60 credit points per year according to their own judgement of the duration of, substantive scope of, amount of work involved in, and significance of each course. At the end of their stay, students receive a 'transcript of records' – a record of the credit points that they have accumulated that is produced by the departmental coordinator and is valid across the Europe – from the host university. This is the foundation upon which recognition of academic achievement in their home country as well as all member states of the European Union rests.

The transcript of records contains an easily understandable and comprehensive record of a student's achievement so that this can easily be transferred.

Full academic recognition is a *condition sine qua non* (a prerequisite) for student mobility within the Socrates Erasmus programme. Full academic recognition means that studies completed abroad, including exams and other forms of assessment, replace a comparable part of their studies at their home university. The study programme to be followed abroad is set out in the 'Learning Agreement', which is binding upon the home and guest university. Recognising achievements at foreign universities within ECTS is now an unproblematic process both for German medical students and the regional examination authority that is responsible for them.

Since the possibilities that ECTS offers to students at Saarland University Medical Faculty – in particular the full recognition of credits awarded at foreign universities – interest in, and acceptance of, ECTS has grown dramatically. Past ECTS students' positive experiences and reports have contributed significantly to this. This manifests itself not only in the large number of enquiries, but also the trend in applications from students of Saarland University Medical Faculty, which has been consistently positive since the beginning of ECTS. The number of applications has now reached 120 per year. Homburg receives around 30 applications from guest students wishing to study here.

Since the introduction of the programme, Saarland University Medical Faculty has provided the bulk of participating ECTS medical students. ERASMUS and ECTS have shown that studying abroad can be a particularly valuable experience. Such stays are not only the best way to get to know other countries, ideas, languages and cultures but are increasingly proving themselves to be an important factor for academic and vocational success. The opportunity to complete part of one's studies abroad has made a positive contribution to making Saarland University Medical Faculty attractive to medicine students.

Part I General Information

Saarland University Saarbrücken/Homburg	12
Profile and History	
Campus university with transnational history	12
International Law and International Economy	12
IT – also in combination with other subjects	12
Cultural Studies: reflecting upon and presenting everyday questions	13
Developing new materials – a challenge for physicists, chemists and material scientists	13
Biosciences: interdisciplinary examination of the most fundamental relationships	13
Sport Science and Sport Medicine	13
Media Skills	13
Faculties	14
Disciplines	15
Internationally oriented courses:	
Law	15
Economics	15
Medicine	15
Linguistic, Literary and Cultural Studies	16
Natural Sciences and Engineering	16
International Office	16
<i>Abteilung für studentische Angelegenheiten</i> (Department for Student Matters)	16
<i>Studienzentrum</i>	17
Saarbrücken: The City	18
Saarland University Medical Faculty, Homburg	21
CHELM – Coordination Centre Homburg E-Learning in Medicine	22
Centre of Expertise in Molecular Medicine	23
Centre for Human Biology and Microbiology	23
Specialisations in the Medical Faculty	24
Homburg: The Town	26
Maps and Area Plans	27
Information for foreign ECTS students (medicine & dentistry)	
Applying	30
Arrival in Homburg	30
Matriculation	30
Registration / Authorities	30
Academic calendar	30
Accommodation / Living costs	31
Language courses	31
Student body	32
Library and internet access	32
In case of illness	32
Contact / ECTS coordinators	33
Internet links und postal addresses	33

Part II Medicine

The German Medical Degree	34
Overview	
General	
Aims and structure of medical training	
Lectures, seminars <i>et al</i>	34
Internship	
First aid training	
Nursing service.	36
<i>Famulatur</i> (≈elective)	
Exams: form and assessment	
Written examinations: the first and second part of the medical exam	37
Oral examinations: the first and second part of the medical exam	
Resits: the first and second part of the medical exam	
Content of the first part of the medical examination	38
Oral/practical exam	
Examination dates	
Second part of the medical exam	39
Major course assessment	
Content of the second part of the medical examination	40
Written part of the examination	41
Oral/practical part of the examination	43
Summary	44
Subjects of Choice/ Elective Courses	45
 German system of grades and ECTS system of grades	 46
Overview: Medical Degree in Germany	47

Part III Course Catalogue, Medicine

Lectures, work experience, courses, seminar	48	
Table: lectures, seminars <i>et al</i>; ECTS Codes; Credit Points	49	
First Section of Medical Examination – Pre-clinical (Years 1-2)	49	
Subjects	49	
Clinical seminars	49	
Elective courses	49	
Second Section of Medical Examination – Clinical (Years 3-6)	50	
Subjects	50	
Cross-subject and integrated courses		51
Block practical	51	
Internship ('practical year')	51	
Elective courses	52	
Subjects	53-96	
<i>See the tables on pages 50-52 for a list of subjects</i>		
Medical Degree at Saarland University		
Medical Faculty: sequence of events		
Syllabuses, timetables		97

Your notes

Your notes

Part I

General information

Profile and history of Saarland University

Campus university with transnational history

Saarland University has campuses in Saarbrücken and Homburg. Homburg (or 'Homburg/Saar' to distinguish it from Bad Homburg) is the home of the medical faculty and university hospital. Saarland University, one of the first universities to be opened after the Second World War, was founded in several stages: with the support of the French military government in Saarland, professors at Homburg State Hospital set up three-month training courses for the clinical semester in January 1946. Since then, Homburg has been a university town and has played host to the Medical Faculty. The University of Nancy sponsored it and established an "Institut de Médecine" as part of the University of Nancy.

The decision to establish this institute in Saarbrücken as an independent university with four faculties was made on 9th April 1948 in Paris. The preparatory phase was concluded by the start of the 1948/49 academic year: 511 students (127 medical students remained in Homburg) began their degrees in temporary barracks in the *Saarbrücker Stadtwald*, the forest near the centre of Saarbrücken. At first, they studied at the faculties of Law and Philosophy, then from 1950 also at the faculty of Natural Sciences. Saarland's unique situation at the time – politically semi-autonomous, closely bound to France economically and monetarily – shaped the university in those early years. When Saarland became part of Germany again, the Government of Saarland's decision to fund the University without help from outside Saarland caused a break in the University's history. On 26th May 1957, when the Saarland State Parliament passed the first University Ordinance, the formal incorporation into the Association of German Universities was complete. With the integration of the School of Education in 1978, the number of subjects on offer was also extended.

The young university developed into a bilingual, European-facing university. An international and European profile, with special links to France, are still some of the hallmarks of Saarland University. These are exemplified by postgraduate and undergraduate degrees that centre on France and/or Europe and the opportunity for students of many different subjects to pursue a dual diploma (namely, a French qualification as well as a German qualification) and the high level of participation in EU exchange programmes, as well as the maintenance of partnerships with universities outside Europe.

The special relationship with France is the central focus of the University's international character, which in 1966 led to the founding of a 'France Centre'. Saarland University's experience and wisdom in all things French was an important reason for basing the Franco-German University, a supranational organisation, in Saarbrücken.

International Law and Global Economy

The *Europa-Institut*, intended as "the jewel in the University's crown", was founded in 1951. Today, the *Institut* offers postgraduate courses in Law and Economics that attract interest from across the entire globe. Another institution from earlier years is the *Centre juridique franco-allemand*. This is the only place in Germany to offer the French foundation course in Law; together with a comprehensive system of reciprocal recognition, this allows a dual degree that includes German Law. The challenges presented by globalisation, especially in the areas of Law and Economy, have brought Saarbrücken's expertise in Law and Economics to the fore.

IT – also in combination with other subjects

IT became a further trademark of the University at a relatively early stage. Of especial note are the co-operation of the academic IT departments with renowned research institutes outside the University (Max-Planck-Institut für Informatik, Deutsches Forschungszentrum für Künstliche Intelligenz, Internationales Begegnungs- und Forschungszentrum für Informatik Schloss Dagstuhl) as well as through the co-operation with other disciplines within the University. In this way, the interdepartmental co-operation between IT, Psychology and Linguistics have resulted in a specific area of research within Cognitive Science.

Bioinformatics, Computer Linguistics, Legal Informatics and Economy Informatics – for all of which

Saarland University has a good reputation – are further examples of how IT integrates with older disciplines to blaze the trail into the future. The high number of IT companies that have been founded are yet more proof of this. Saarland University is the only place in the world where such a centre of expertise in Linguistics research and technology is being developed.

Cultural Studies: reflecting upon and presenting everyday questions

In the Philosophy faculties an interdisciplinary realignment towards a new conception of Cultural Studies is taking shape: amongst others in the form of new degree courses that link academic wisdom from several disciplines through comprehensive forms of interdisciplinary co-operation. Above and beyond this, these courses convey comprehensive media skills. The new courses prepare students for later work in such areas as Cultural Management, Journalism, Publishing and Museum Management.

Developing new materials – A challenge for Physicists, Chemists and Material Scientists

Trailblazing work in the area of nanotechnology has led to a specialised area of study in which physicists, chemists and material scientists co-operate on research and development of new materials. Students who have completed a foundation course in these subjects have the possibility to pursue an international degree in “Material Science/Material Technology”, which is organised with partners in France, Spain and Sweden. Two research institutes near to the University, which have earned an excellent reputation in the area of Material Sciences, are the *Fraunhofer Institut für zerstörungsfreie Prüfverfahren* (Fraunhofer Institute for Non-destructive Testing) and the *Institut für Neue Materialien* (Institute for New Materials).

Biosciences: interdisciplinary examination of the most fundamental relationships

Two specialised areas of study within the Medical Faculty are dedicated to Cell and Molecular Biology. Against this attractive background of research, Medicine and Biology offer a Diploma in “Biology with Emphasis of Human Biology and Molecular Biology”. This Diploma is decidedly research-oriented. The human genome and its products, functions and interdependencies are the central focus of the Diploma. Medicine in Homburg has made its name above all in the area of Tumor Immunology. Also of interest is its close co-operation with the *Fraunhofer Institut für Biomedizinische Technik (IBMT – Fraunhofer Institute for Biomedical Technology)*

Sport Science and Sport Medicine

The Institute of Sport Science (*SWI*) is one of Germany's leading lights in Sport Science. It is at the cutting edge of information and communication technology in Europe. Saarbrücken's Sport Medicine also has an excellent reputation, playing a leading role in the care of the nation's elite athletes. Sport Medicine and Sport Science are conceptually very closely related. Apart from providing services to the state sport development association (*Landesverband Saarland*) and the Olympic Agency of Rheinland-Pfalz/Saarland, Sport Medicine and Sport Science are closely related and provide an ideal backdrop for University sport in general. This offers all members of the University the opportunity to take part in sport under the supervision of experts for a low price: whether for leisure, health or competition.

Media Skills

VISU (*Virtuelle Saar Universität – Virtual Saar University*) is the title of a university-wide project to stimulate and activate the deployment of new information and communication technology in education and research, publications and academic events. For example, a video-conferencing studio makes possible joint lectures and seminars with partners from other universities. As well as this, the ‘old’ media still take their place in the syllabus: from film analysis to academic journalism. But one can also acquire media skills by taking part in student initiatives, including Univox, a radio station broadcast by students for students.

Faculties

Faculty 1 -	Law and Economics
Faculty 2 –	Medicine/Dentistry: Theoretical Medicine, Homburg Campus
Faculty 2 –	Medicine/Dentistry: Clinical Medicine, Homburg Campus
Faculty 3 -	Philosophical Faculty I: Historical and Cultural Studies
Faculty 4 -	Philosophical Faculty II: Linguistic, Literary and Cultural Studies
Faculty 5 -	Philosophical Faculty III: Empirical Human Sciences – Institute of Sport Science
Faculty 6 -	Natural Sciences, Technical Faculty I: Mathematics and IT
Faculty 7 -	Natural Sciences, Technical Faculty II: Physics and Electronics
Faculty 8 -	Natural Sciences, Technical Faculty III: Chemistry, Pharmacy, Biological Sciences and Material Sciences

Subjects

<i>Allemand</i>	History of Art
General and Comparative	Language Science and Technology
Literary Studies	Latinist Philology
English Language and Literature Studies	<i>Lettres Modernes</i>
Business Studies	Mathematics
Bioinformatics	Micro und Nano Structures
Biology	Medicine
Chemistry	Metallurgy
Computer and Communication Technology and Computer	Music Studies
Linguistics	Pharmaceuticals
German Language and Literature (German as first language)	Philosophy
Systems and Electronic Engineering	Phonetics
Educational Science	Physics
Protestant Theology	Production Engineering
French Cultural Studies	Psychology
French Linguistic and Literary Studies	Law
Geography	Spanish Linguistic and Literary Studies
History	Sport Science
Cross-border Franco-German Studies	Pre- and Early History
Greek Philology	Translation/Interpreting: French as First Language
IT	Translation/Interpreting: English as First Language
Information Studies	Translation: Italian as First Language
Intercultural Communication	Translation/Interpreting: Spanish as First Language
Italian Linguistic and Literary Studies	Translation: Russian as First Language
Catholic Theology	Materials Science
Classical Archaeology	Computer Economics
Historically Oriented Cultural Studies	Economic Theory and Methodology
	Dentistry

The **Index of Lectures**, a comprehensive list of subjects offered in a particular semester, can be found at: <https://www.lsf.uni-saarland.de/>

Internationally Oriented Courses

Law

- Courses in French Law at *Centre juridique franco-allemand*, offering two degrees: *DEUG (diplôme d'études universitaires générales)-Droit français* and *DEUG-Droits français et allemand*. Within the confines of a verified programme, German law can be studied in parallel.
- Integrated Study Programme with University of Lille II and University of Warwick, based on the foundation course of participating universities and results in the award of a certificate.
- Master of Laws (LL.M.), enables those who graduated abroad to learn the foundations of German law and to take an exam.
- Master of Law in European Integration (LL.M.Europe) at the *Europa-Institut*.
Graduates can gain a supplementary qualification in European Law through completing a *Magister* in European Law.

Economics

- Integrated degree, in co-operation with the *Ecole de Management Lyon*, culminating in a dual diploma.
- Postgraduate course in European Economics at the *Europa-Institut*, aligned with American vocationally-oriented postgraduate degree and culminating in an MBA-Europe.

Medicine

- Further education of Syrian doctors in the context of a programme offered in co-operation with Syrian universities.

Linguistic, Literary and Cultural Studies

- Interdisciplinary, cross-border degree in Franco-German Studies, offered in co-operation with University of Metz and leading to a Dual Qualification (*Maîtrise/Diplom*).
- Postgraduate degree German as a Foreign Language, which is intended in particular to convey the ability to educate non-native speakers in German language and culture.
- *Licence* and *Maîtrise d'Allemand* as well as *Licence* and *Maîtrise de Lettres modernes* are French degrees that can be gained at Saarland University. The subject Translation and Interpreting offers French native speakers the opportunity to gain a Diploma with German as first language and English as second language.
- In the field of Linguistic Technology it is possible to participate in a Graduate School that is run in co-operation with Edinburgh University.
- Trainee teachers can study the teaching of Geography and History in a bilingual degree offered in co-operation with the University of Metz.

Natural Sciences and Engineering

- Because IT students and experts require certain special conditions, they can participate in a Masters in Computer Science programme.
- Following their undergraduate degree, physicists are able to take part in an integrated degree that is run in co-operation with the University of Nancy I and results in a Dual Diploma.
- Chemists have the opportunity, following their undergraduate degree, to take part in an integrated degree programme that is put on in co-operation with the *Ecole Européenne de Chimie, Polymères et Matériaux (ECPM)* and culminates in a Dual Diploma.
- Physicists, chemists and material scientists can, following their foundation course, participate in the *Ecole Européenne d'Ingénieurs en Génie des Matériaux (EEIGM)*'s multinational programme that is run jointly with partners in France, Spain and Sweden and results in a dual diploma.
- Ambitious graduates of Physics, Chemistry or Pharmacy can take part in the Franco-German Graduate School's course "Physical Methods for Researching Structure of New Materials".

International Office

Whether you are somebody from another country interested in studying at Saarland University, or a Saarland University student who wants to study abroad, the International Office is the place to direct your enquiries and questions about foreign study. They will give you tips about preparing and applying for study abroad, sources of funding etc.. The International Office offers foreign students German language courses out of term time and during term time alongside your studies. Students from Europe further afield can also receive help in finding a flat and organising their studies at Saarland University.

Department for Student Matters

This is where applications for places at Saarland University are processed and, once a place is awarded, the official registration as a student. The entitlement to study also includes admission to a German language course, if this is necessary, at the *Studienkolleg* (an institution to enable foreign students to study at German universities). The *Studienkolleg* offers the DSH language certificate necessary for admission to German university.

The *Abteilung für studentische Angelegenheiten* also offers a package with information on all aspects of studying and living in Saarland – including an 'information bazaar' at the beginning of every Winter semester.

Foreign Medicine students intending to complete a degree through the ECTS system should send the application forms, signed by their own Departmental Coordinator, directly to the Departmental Coordinator of the Medical Faculty.

Center for centre for advice on studying, further education and distance learning

The *Studienzentrum* (centre for advice on studying, further education and distance learning) provides information about studying and further education at the University and other colleges throughout Saarland as well as advice about the content, structure and demands of degrees. It holds extensive, up-to-date information: descriptions of degrees, study and examination regulations, timetables and personal and written 'starting out' guides. Beyond that, the *Studienzentrum* organises and supervises distance learning and offers practical services relating to further education.

The City of Saarbrücken¹

In the last centuries before the birth of Christ, the Mediomatrici, a Celtic tribe, inhabited the region surrounding what we now know as Saarbrücken. When Caesar's troops conquered Gall, the entire left bank of the Rhine was occupied by the Romans.

999

First documentary reference to Saarbrücken: King Otto III gives the castle "Castellum Sarabrucca" to the bishops of Metz.

1120

Saarbrücken evolves out of the existing fiefdom when, through the arrival of knights, merchants and those seeking protection, the area surrounding the castle develops into a settlement. By the start of the 14th century the inhabitants of Saarbrücken and St Johann, opposite, are villeins.

1321

Earl Johann I of Saarbrücken-Commercy signs the charter that grants Saarbrücken the status and rights of a town.

1604-1617

Earl Ludwig orders the building of a new castle in Renaissance style. He also founds the Ludwigsgymnasium (a school).

1618-1648

Saarbrücken does not escape the terror of the Thirty Years War, which leaves awful marks. The number of inhabitants sinks from 4,500 in 1628 to 70 in 1637. Before the trauma of the Thirty Years War can be overcome, the Louis XIV instigates a series of war, including the War of Devolution.

1677

Saarbrücken is reduced to just eight houses after the town is all but consumed in flames during Louis XIV's wars.

1741

During Wilhelm-Heinrich's reign, the town experiences a remarkable economic upturn. The Earl nationalises the coal mines. New iron foundries are built, allowing ores to be used more effectively. Infrastructure and society experience change, too: the introduction of a regular postal service; the development of a school system; Earl Wilhelm-Heinrich promotes the erection of churches of all permitted faiths and tasks Gottfried Hofer, the printer, with publishing a weekly newspaper; the genial Baroque architect Friedrich-Joachim Stengel arrives in Saarbrücken and creates the town's image.

1738-48

Thanks to Stengel the ruins of the Renaissance castle were replaced with a Baroque chateau. Other significant Stengel buildings are the *Friedenkirche* (1745), the Old Town Hall at *Schloßplatz* (1750) and the *katholische Pfarrkirche St. Johann* – a minor basilica (1754).

1775

Stengel builds his last building in Saarbrücken, the *Ludwigskirche*.

1793

French revolutionary forces occupy the town. The Baroque chateau is plundered and burned to the ground, leaving only the foundations intact.

1797/1801

The treaties of Campo Formio (1797) and Lunéville (1801)) grants Saarbrücken to the French.

1815

Saarbrücken and the Saar region fall into the possession of the Kingdom of Prussia. A *Bürgermeisterei* of Saarbrücken is established, covering Saarbrücken and St. Johann as well as Malstatt, Burbach, Brebach and Rußhütte.

1852

Saarbrücken celebrates the opening of its first train station, connecting the *Ludwigsbahn* railway in Palatinate (Pfalz) with the French *Ostbahn*.

1856

Work at the Burbach ironworks begins.

1860 onwards

Canalisation of the river Saar allows the transport of coal. At the same time, the Saar is connected to the significant French canal network.

1870/71

Franco-German War: a bloody battle takes place at the *Spicherer Höhen*, directly in front of the city gates.

¹ Source: Landeshauptstadt Saarbrücken, Öffentlichkeitsarbeit, 66104 Saarbrücken (2004) <http://www.saarbruecken.de>

1909

The 'Saar towns' Saarbrücken, St. Johann and Malstatt-Burbach are united to form the City of Saarbrücken with a population 105 000. It is now the fifth largest German city on the left-bank of the Rhine.

1911

A Zeppelin airship lands on the fields of St. Arnual. Saarbrücken's first airport is built on this site. Saarbrücken airport is now located at Saarbrücken-Ensheim.

1914

Saarbrücken is the concentration area of the front that stretches from Verdun to the north Vosges.

1915

An aerial bombardment makes Saarbrücken feel the suffering of the War for the first time

1918

The Saarland industrial area is to be annexed. The last German troops leave the city. Marschall Foch moves into Saarbrücken with his troops and dissolves the workers' and soldiers' councils.

1919

The Treaty of Versailles put Saarland under administration of the League of Nations for fifteen years. The mines become French property.

1935

Saarland's future is decided by a referendum. Ninety per cent of the population vote to return Saarland to Germany.

1939/1944

Saarbrücken is the victim of several heavy bombings during the Second World War. The population had to be evacuated twice. Saarbrücken's old town is almost completely destroyed. A total of 11,000 houses are destroyed. Towards the end of the war, US troops occupy Saarbrücken. In the same month, the French military government assumes the administration of Saarland.

1947

Saarland becomes an autonomous state, with Saarbrücken as the capital and the seat of government. In November the Saarland economy is linked to France.

1948

Foundation of *Universität des Saarlandes*, Saarland University.

1955

In a referendum on the future of Saarland, two-thirds of voters reject the Saar Statute, which would have brought political independence.

1957

Saarland becomes the eleventh German state; Saarbrücken is the state capital.

1959

From 5th July, Saarland is also economically part of the Federal Republic of Germany. The following years see Saarbrücken's transition to a regional economic metropolis, which is reflected in the erection of new buildings and Saarbrücken's growth. Examples of new developments are the *Stadtautobahn* (a motorway running through the centre of the city), the *Deutsch-Französischer Garten* ('Franco-German Garden') and Saarbrücken Zoo. These are accompanied by office buildings, banks and department stores.

1965

The French city of Nantes becomes Saarbrücken's first twin city.

1970

The small airport at Ensheim is expanded into a passenger airport. Work on sanitisation in the old town begins

1974

The *Gebiets- und Verwaltungsreform* (territorial and administrative reform) makes the neighbouring town of Dudweiler and surrounding boroughs part of Saarbrücken. leading to an increase in population from 123,006 to 209,104.

1975

Tbilisi, Georgia, becomes Saarbrücken's second twin city. Saarbrücken becomes the first German town to maintain a partnership with a town in the then Soviet Union

1989

Saarbrücken celebrates its eightieth birthday as a city.

1992

Saarbrücken receives a UN award on the occasion of the Rio de Janeiro environment conference for its work on energy policy with the public utility company.

1994

After Wiesbaden (1991), Kiel (1992) and Hamburg (1993), Saarbrücken becomes the fourth German partner city of the UN's children's relief organisation.

1999

With over 300 events, Saarbrücken celebrates its thousandth year as a town.

At the turn of the millennium, Saarbrücken's economy is developing especially in the IT area, which is creating thousands of new jobs. Thanks to the exemplary *Starterzentrum* (centre for those wishing to start a business) at the University and its Science Park academia and economy are even more closely related.

A large number of people visit the shops, theatre, museums, restaurants and cafés that adorn the old town with its pleasant pedestrian area. The French influence is especially evident in the state capital's food. Saarbrücken's proximity to France and Luxembourg gives it a particular attraction and its location in the heart of Europe make it particularly interesting and amiable.

Saarland University Medical Faculty, Homburg

The university hospital of the modern Medical Faculty in Homburg, around 30 kilometres from the Saarbrücken campus, is the stem cell of Saarland University. The clinics and departments of the faculty are situated in a unique landscape on the edge of the Palatinate forest. The campus is surrounded by forest and itself hosts an unusually large and old variety of trees and park-like spaces. In the years since the establishment of the University, the faculty has been constantly renovated and expanded so that all disciplines necessary for completing a medical degree and modern medical research are represented. Not only the organisational structure and the number of teaching staff have been kept up to the international standard of a university: comprehensive renovation work, expansion and new buildings have ensured that the campus is up-to-date physically, technically and economically. The hospital boasts 1,500 beds and treats around 50,000 patients per year.

In several institutes of Theoretical and Clinical Medicine, new paths in research as well as diagnosis and therapy have been beaten or techniques have been developed that have been used all across Europe and beyond. Around 1,000 medical papers are published each year and around 130 doctorates are conferred. The institutes and clinics, which are equipped to modern standards, host a multitude of academic symposia, congresses, conferences and guest lectures that are attended by academics from home and abroad. The Medical Faculty's academics and doctors are constantly exchanging their expertise and experiences with medics from abroad and many of them are invited to participate in events abroad.

The Medical Faculty and hospital employ almost 4,000 people and is the second largest employer in Homburg. The comprehensive and very varied tasks around teaching, research and treatment are carried out by around 110 professors and more than 300 other doctors, psychologists and scientists. Four nearby hospitals are designated academic teaching hospitals and are thus involved in the Faculty's education programme. During the *Praktisches Jahr* (one-year internship), the last part of the medical degree, medical students are shared between these hospitals and the clinics on the Homburg campus.



Seal of the Medical Faculty, Homburg:

Asclepius, the Greek god of medicine, receives the hand of friendship from Artemis, midwife and general healer, signifying their common bond.

**Coordination Centre Homburg
E-Learning in Medicine
(CHELM®)**



Modern information technology will continue to cause sustained change not only teaching and examination but also learning in general; in other words the processes of information and knowledge transfer and learning culture.

The initiation of the project *Virtuelle Saar Universität (VISU)* in 1999 and the founding of the Competence Centre VISU (CC VISU) in 2002 at Saarland University represented an early adoption of these future-oriented developments; to date they have been continually implemented within the university structure. The new media and information technology lend themselves especially to the Medical Faculty. Through a comprehensive and systematic integration of e-learning into the medical degree as a method of learning and examination, the profile of the Medical Faculty has been significantly improved and has increased the attractiveness of Saarland University.

Aims

The Coordination Center Homburg E-Learning in Medicine (CHELM®)'s mission is improvement and increase in quality through the wide and continued deployment of new media and information technology, especially E-Learning, in training within the context of degree programmes at Saarland University Medical Faculty as well as for school pupils at the University *Schulzentrum* (school centre).

CHELM® is intended to contribute to defining the profile of the Medical Faculty and repositioning it and the *Schulzentrum* to be future-oriented, especially in pursuit of the European Higher Education and Research Area.

Tasks

The task of CHELM® is the promoting, strategic planning, grouping, co-ordination, support and advice of e-learning and e-science activities and projects at the Medical Faculty and *Schulzentrum* in Homburg. The deployment, development, academic support and sustained integration of new information and communication technologies into teaching and research are central. This particularly includes the introduction of a Learning Management System and the use of software tools for the production of digital teach-learn content at the Medical Faculty and *Schulzentrum*.

CHELM® supports the Medical Faculty and *Schulzentrum* in improving its teaching and research through the deployment of new media.

Contact person:

Univ.-Prof.Dr. Norbert Graf
Study Dean
Medical Faculty
The Saarland University
Tel. (06841) 16-28397, -28399
Fax: (06841) 16-28302,
E-Mail: norbert.graf@uniklinikum-saarland.de

Centre of Expertise in Molecular Medicine (Kompetenzzentrum Molekulare Medizin)

<http://www.uni-saarland.de/fak2/komm/>



The function of the Medical Faculty's *Kompetenzzentrum Molekulare Medizin (KoMM)* is to organise existing resources, to improve technology transfer and to promote the development of a new generation of scientists within molecular medicine. KoMM fulfils its duties without prejudice to the responsibilities of other institutes and organs of the University through:

- Strengthening research in cross-over areas of fundamental biomedical medicine, clinical medicine and applied technological development through knowledge and technology transfer at the clinics and the Faculty (i.e. the University);
- Transfer of technology and results of research that are ripe for use in industry – including companies that KoMM has founded – with the aim of creating new jobs in the region;
- Public relations work in order to anchor bioscience in the population at large;
- Recruitment and promotion of the next generation of scientists with the aim of engaging them in training and further education to become graduates with excellent career prospects;
- further pooling existing resources with the aim of establishing more collaborative research projects (e.g. research groups, new research areas).

Director:

Univ.-Prof. Dr. Richard Zimmermann
Fachrichtung 2.3 – Medical Biochemistry & Molecular Biology
The Saarland University
Campus Homburg
D-66421 Homburg/Saar
Tel.: +49(0)6841-16-26510, 26511
Fax: +49(0)6841-16-26288

Centre for Human Biology and Microbiology (Zentrum für Human- und Molekularbiologie)

The cross-faculty *Zentrum für Human- und Molekularbiologie (ZHMB)* co-ordinates teaching in human biology and microbiology. In particular, it guarantees the Diploma in "Biology with Emphasis of Human Biology and Molecular Biology". In order to do this, it organises the teaching and examination for this diploma, passes the necessary study and examination regulations, and carries out examinations. ZHMB takes part in the verification and appointment of its own professors and decides on whether to accept professors as members of the centre.

Research

The ZHMB co-ordinates research in all areas of human biology and molecular biology:

- DFG Graduate School "Molecular, physiological and pharmacological analysis of cellular membrane transport.";
- DFG Graduate School "Cellular regulation and growth";
- DFG Graduate School "Calcium signalling and cellular nanodomains";
- DFG European Graduate School "Physical methods in structural characterisation of new materials";
- DFG Clinical Research Group KFO 129 "Mechanisms of resistance development and optimisation of antiviral strategies against hepatitis C viral infection using integrative models of biomathematics and bioinformatics";
- DFG Special Research Area "Space-time interactions of cellular signal molecules";
- DFG Programme of Emphasis "Epigenetic"; EU project CellProm "Cell Programming by Nanoscaled Devices"

Specialisations in the Medical Faculty

Theoretical Medicine and Biosciences

Specialisation 2.1 – Anatomy and Cellular Biology

Specialisation 2.2 – Physiology

Specialisation 2.3 – Medical Biochemistry and Molecular Biology

Specialisation 2.4 – Experimental and Clinical Pharmacology and Toxicology

Specialisation 2.5 – Biophysics

Specialisation 2.6 – Human Genetics

Clinical Medicine

Specialisation 2.7 – Internal Medicine

Medical clinic and outpatient clinic

Internal Medicine I (Haematology, Oncology, Immunology, Rheumatology)

Internal Medicine II (Gastroenterology, Diabetology, Endocrinology, Nutritional Medicine)

Internal Medicine III (Cardiology, Angiology, Intensive Care)

Internal Medicine IV (Nephrology)

Internal Medicine V (Pneumology)

Clinical-chemical Central Laboratory

Specialisation 2.8 – Ophthalmology

Eye clinic und and outpatient clinic

Specialisation 2.9 – Surgery

Surgical clinic and outpatient clinic

Clinic for General Medicine, Visceral Surgery, Paediatric Surgery and Vascular Surgery

Institute for Clinical-Experimental Surgery

Clinic for Trauma Surgery, Hand Surgery and Reconstructive Surgery

Clinic for Thoracic and Cardiovascular Surgery

Clinic for Clinical Haemostaseology and Transfusion Medicine

Specialisation 2.10 – Anaesthetics

Clinic for Anaesthesiology, Pain Therapy and Intensive Care

Specialisation 2.11 – Neurosurgery

Neurosurgery Clinic and Research Laboratory

Specialisation 2.12 – Gynaecology

Gynaecological Clinic and Outpatient Clinic

Specialisation 2.13 – Ear, Nose and Throat

Clinic and Outpatient Clinic for Ear, Nose and Throat

Specialisation 2.14 – Dermatology

Clinic for Dermatology, Phlebology, Venereal Diseases and Allergology

Specialisation 2.15 – Paediatrics

Clinic for Paediatrics

Clinic for Paediatric Cardiology

Clinic for Paediatric Haematology and Oncology

Specialisation 2.16 – Orthopaedics

Clinic and Outpatient Clinic for Orthopaedics and Orthopaedic Surgery

Specialisation 2.17 - Neurology and Psychiatry

Clinic for Neurology

Clinic for Psychiatry and Psychotherapy

Clinic for Paediatric Psychiatry

Specialisation 2.18 – Forensic Psychology and Psychiatry

Institute for Forensic Psychology and Psychiatry

Specialisation 2.19 – Radiology

Radiological Clinic

Clinic for Diagnostic and Interventional Radiology

Clinic for Radiotherapy and Radio-Oncology

Clinic for Nuclear Medicine

Clinic for Diagnostic and Interventional Neuroradiology

Specialisation 2.20 – Urology and Paediatric Urology

Clinic and Outpatient Clinic for Urology and Paediatric Urology

Specialisation 2.21 – Facial, Oral and Maxillofacial Therapy

Clinic and Outpatient Clinic for Facial, Oral and Maxillofacial Illnesses

Department for Prosthodontics and Materials

Department for Orthodontics

Department for Tooth Care and Periodontics

Department for Facial, Oral and Maxillofacial Surgery

Specialisation 2.22 – Pathology

Institutes for Pathology

Institute for General and Specific Pathology

Institute for Neuropathology

Specialisation 2.23 – Legal/Forensic Medicine

Institute for Legal/Forensic Medicine

Specialisation 2.24 – Medical Microbiology and Hygiene

Institute for Infectious Diseases

Institute for Bacteriology and Hygiene

Institute for Virology

Specialisation 2.25 – Clinical Psychotherapy and Psychomatics

Institute for Psychoanalysis, Psychotherapy and Psychosomatic Medicine

Specialisation 2.26 – Medical and Clinical Psychology

Specialisation 2.27 – Sport and Preventative Medicine

Specialisation 2.28 – Medical Technology

Fraunhofer-Institut für Biomedizinische Technik

**Specialisation 2.29 – Medical Biometry, Epidemiology and
Medical Informatics**

Specialisation 2.30 – Occupational Medicine

Institute and Outpatient Clinic for Occupational Medicine and Environmental Medicine; Preventative Medicine Centre

Homburg: The Town²

The town's seal from 1699 bears the inscription "Homburg - Crescere nil obstat", loosely translated as "Homburg is starting to grow". That prognosis has been confirmed. The development of this district university town that was declared a town in 1330 and has ca. 40,000 inhabitants is to be seen everywhere you go. The basis of this favourable trend was a consistent economic and development policy since the start of the last century, whereby the settlement of ecologically friendly industrial plants was favoured. In Homburg, around 28,000 people are employed, including ca. 13,000 commuters from the eastern Saar region, from the western part of Rhineland-Palatinate and from France.

The Medical Faculty and the University Hospital are amongst the largest employers in the town. The fact that Homburg is the medical centre of Saarland is of significance for the town, which profits in numerous ways from the prestige of the Medical Faculty and University Hospital, including its ability to attract people from all over the world. Almost 2,000 medical students and around 4,000 medical employees help to define the town's image.

Homburg has become one of the region's important retail centres with an excellent service sector. Department stores, specialist shops and workshops are able to fulfil a customer's every wish. The face of the town has changed significantly within the last fifteen years. The sanitation of the old town has been accompanied by the renovation of pedestrian precincts and the refurbishment of squares and fountains, which combine to make a visit to Homburg a pleasure. Pleasant Saarland pubs and cafés, first-class restaurants and outstanding hotels make a significant contribution to this.

The high proportion of forest in the area of the "town of the tree" is one of Homburg's hallmarks. Long walks in the surrounding forests remind the visitor of a great and sometimes proud history: historical ruins, like the *Hohenburg*, Karlsberg Castle and the Cistercian abbey in Wörschweiler – renovated by specialists – and the *Gustavsburg* bear witness to Homburg's past. The sandstone caves on the *Schlossberg*, Europe's largest soft sandstone caves, and the Roman Museum, one of the finest open-air museums in Germany, are widely renowned tourist attractions that attract in the region of 10,000 visitors per year.

Numerous cultural events show that Homburg is a very lively town. The monthly flea-market, one of the largest and most famous in south-west Germany, deserves a mention here. The large number of public festivals and concerts are very popular within Saarland and Palatinate; the regular top-quality concerts that take place in Homburg have made the town Saarland's secret "musical capital".

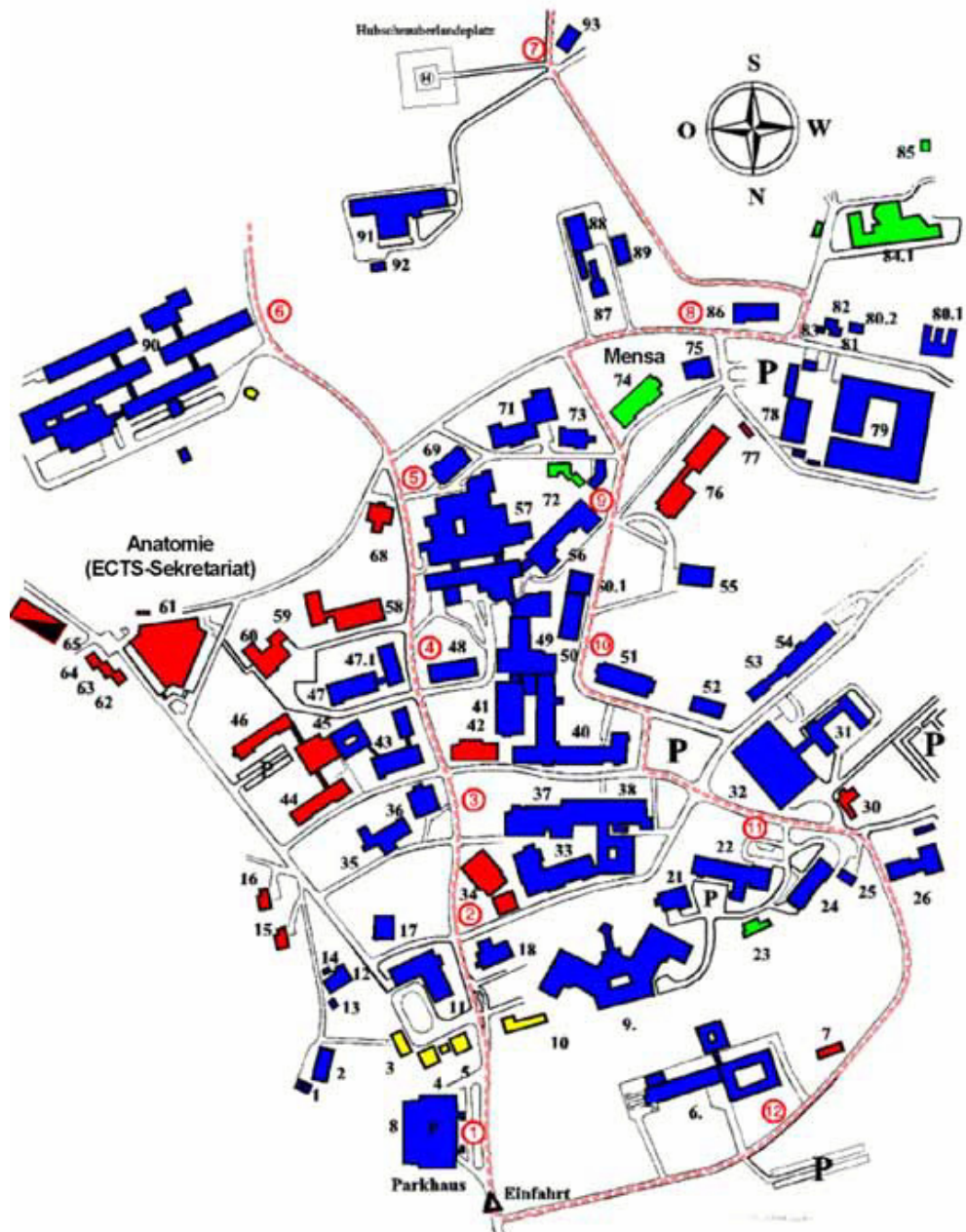
² Source: www.homburg.de



Homburg is roughly 30 km away from Saarbrücken via the Paris-Mannheim and Trier-Karlsruhe motorways or the Paris-Frankfurt train line. The nearest airports are Zweibrücken (10km) and Saarbrücken-Ensheim (ca. 20 km).

You can obtain a plan of Homburg at www.homburg.de or in the ECTS office.

Medical Faculty and University Hospital



Information for foreign ECTS students

Applying

In order to study at the Medical Faculty of the University of Saarland under the ECTS programme, you need the following documents, which must be signed by the **Departmental Coordinator of your home university**:

- **ECTS-Bewerbungsformular** (ECTS Application Form)
- **Studienprogramm** (Learning Agreement)
- **Datenabschrift** (Transcript of Records) of your home university detailing your grades to date.

These documents should be sent to the following address:

Universität des Saarlandes
Medizinische Fakultät
ERASMUS-/ ECTS-Büro
Gb. 15
D – 66421 Homburg

Arrival in Homburg

Following arrival, applicants should present themselves to the ERASMUS-/ ECTS-Büro. It is open from Mo-Fr 09-12 and by appointment.

Matriculation

You do not have to pay student fees. Formalities necessary for matriculation can take place in the **ECTS-Büro** in Homburg.

You must bring the following:

- Proof of health insurance (European Health Insurance Card)
- 4 recent passport photos

The students' union requires a fee of € 129. In return you receive a '**semester ticket**' that entitles you to use all public transport within Saarland (buses and local trains).

Registration / Authorities

ECTS students are obliged to register with the citizenship office (*Einwohnermeldeamt*) in Homburg. (You will receive more details about this when you arrive.)

Academic Calendar

The academic year at Saarland University is divided into two semesters. The winter semester begins in mid-October and ends in mid-February; the summer semester begins at the start of April (one week after Easter) and ends mid-July. ECTS students are advised to arrive two to three weeks before lectures start.

Start of lectures in winter semester 2008/ 2009:	06.10.2008
End of lectures in winter semester 2008/ 2009:	31.01.2009
Start of lectures in summer semester 2009:	20.04.2009
End of lectures in summer semester 2009:	31.07.2009

Accommodation / Living costs

A *Mensa academica* (canteen) is placed at the disposal of those studying in Saarbrücken and Homburg. The prices for lunch range from around € 1,80 – € 2,50.

Within walking distance as the Medical Faculty campus are halls of residence (<http://www.studentenwerk-saarland.de/>) which can accommodate around 400 people, including ECTS students. The monthly rent is around € 140-€ 180. To apply for a room, ECTS students should contact the *Studentenwerk* directly on:

Studentenwerk im Saarland e.V.

c/o Frau Heidi Mayer
Campus Homburg
Gebäude 74
D - 66421 Homburg/Saar
Phone +6841-162 7484
Fax +6841-162 7485
h.mayer@studentenwerk-saarland.de

Living costs (examples)

Daily newspaper	1 - 1,5 Euro	Bread 500 g	1,5 - 2,5 Euro
Haircut	10 - 15 Euro	Sliced white bread 750 g	1,2 - 1,8 Euro
Computer magazine	3 - 4 Euro	Milk 1 Litre	0,5 - 0,8 Euro
A pair of jeans	50 - 70 Euro	Butter 250 g	1,2 - 1,4 Euro
Cinema ticket	4 - 8 Euro	Cereals 350 g	1,9 - 2,1 Euro
Stamp (standard)	0,56 Euro	Potatoes 1000 g	0,7 - 0,9 Euro
Coffee 500 g	4 - 5 Euro	Spaghetti 500 g	0,6 - 0,8 Euro
Phone call 1 Min.	0,12 Euro	Pizza 300 g	1,5 - 2 Euro
Instant coffee 200 g	4 - 5 Euro	Pizza (Restaurant)	4 - 8 Euro
Petrol 1 Litre	1,40 Euro	Big Mac	2,5 - 3 Euro
Tomatoes 500 g	1 - 1,4 Euro	Beer 0.5 Litre (Shop)	0,6 - 0,8 Euro
Taxi (10 km)	10 Euro	Bier 0.5 Litre (Restaurant)	2,5 - 3 Euro
Cheese 100 g	0,5 - 1 Euro	Orange juice 1 Litre	0,5 - 1,5 Euro
Chocolate 100 g	0,5 - 1 Euro	Mineral water 1 Litre	0,5 - 0,8 Euro
Paracetamol 500 mg	1,75 Euro	Lemonade 0.33 Litre	0,5 - 0,7 Euro
Oranges 1000 g	0,6 - 1 Euro	Toilet roll	1,2 - 1,5 Euro
Bananas 1000 g	1,5 - 1,8 Euro	Toothpaste 100 ml	1,5 - 2 Euro
Pork 500 g	2 - 2,5 Euro		

Language courses

ECTS students who wish to brush-up their German can attend a German language course.

Up-to-date information with information about prices can be found at:

<http://www.uni-saarland.de/de/studium/sprachkurse/deutsch/>

Student Body for Medicine

According to the University ordinances, the students of Saarland University collectively form the Student Body (*Studierendenschaft*). This is a University body and participates in the election of officers to the board of the University. The –

Fachschaft Medizin

Geb. 74

Campus Homburg

Tel. +6841-162 7499

<http://www.fachschaft-medizin.info/>

– represents the interests of medical students and offers them support relating to their courses.

The Student Body organises cultural, sport and free-time events.

Library and Internet Access

The medical section of the Saarland University and State Library has reading rooms and PC work stations and is located on the Medical Faculty campus. It is open from Monday to Friday between 08.00 and 20.00 and on Saturdays between 08.00 and 13.00.

Reading and study rooms (open Monday – Friday from 8.00 – 20.00) are situated in the canteen building, the *Mensa-Gebäude*.

PC workstations for students are available in the Department of Anatomy building.

In case of illness

EU students should present their European Health Insurance Card to the doctor or dentist who treats them. Doctor's and hospital fees are then reclaimed by AOK from your health insurance at home.

The ECTS Departmental Coordinators are – according to the illness in question – able to help in finding a doctor or specialist and can, in some cases, give advice themselves.

Contact

ECTS Departmental Coordinators

Stephanie Orlich, Dipl.-Biol.

Florian S. Schmitz, M.D.

Consultants for Study & Teaching Affairs

The Saarland University
Medical Faculty
ERASMUS-/ ECTS-Coordination-Office
Bldg. 15
D - 66421 Homburg/Saar
Mail: ects@uks.eu
Tel. (0049) 6841 - 162 6001/ -6072
Fax (0049) 6841 - 162 6324

ECTS Institutional Coordinator

Fabienne Saunier Replumaz

European Programmes & Erasmus Institutional Coordinator

The Saarland University
International Office
Bldg. A 2 2, Zi. 3.25
D - 66041 Saarbrücken
Mail: f.saunier@io.uni-saarland.de
Tel. (0049) 681 – 302 4395
Fax (0049) 681 – 302 4489

Internet links und postal addresses

Socrates-Erasmus/LLP-ECTS page <http://www.uks.eu/erasmus>

University

Saarland University <http://www.uni-saarland.de/>

Saarland University /
Information brochure

<http://www.uni-saarland.de/Info/brochure/a-german-university/index.html>

Intensive language courses
Lecture timetable

<http://www.uni-saarland.de/de/studium/sprachkurse/deutsch/>
<https://www.lsf.uni-saarland.de/>

Medical Faculty

University Hospital
Medical Faculty/ Dean
Student Dean

www.uks.eu
http://www.uniklinikum-saarland.de/de/med_fak/dekanat
http://www.uniklinikum-saarland.de/de/med_fak/dekanat/studiendekanat

Student Body

<http://www.fachschaft-medizin.info/>

Studentenwerk im Saarland e.V.

<http://www.studentenwerk-saarland.de/>

Saarland Information
Saarbrücken
Homburg

<http://www.saarland.de/>
<http://www.saarbruecken.de>
<http://www.homburg.de>

Part II Medicine

The German Medical Degree

Overview

Medical training in Germany is governed by law through the *Approbationsordnung für Ärzte* from 27 June 2002. It encompasses:

- a medical degree of **six years' duration** from a University or equivalent college. The last year of the degree must be practical training (Internship, or *Praktisches Jahr*) of 48 weeks' duration;
- **first aid** training;
- three months **service as a nurse**;
- **practicals** lasting 4 months;
- the **medical examination**, divided into **two sections**.

The recommended duration of the entire degree is six years and three months, including examinations.

The medical examination takes the following form:

- **First section of the medical examination:** at the end of the second year studying medicine;
- **Second section of the medical examination:** after a further four years studying medicine including an internship.

Aims and structure of medical training

The aim of medical training in Germany is to produce doctors who are academically and practically competent and who are capable of independently working as a doctor, engaging in further education and undertaking continual training. The training should convey fundamental knowledge and skills in all subjects as necessary for comprehensive health care of the population. Medical training is academically based but is carried out practically and patient-oriented. It should impart —

- the fundamentals of the body's functions and spiritual attributes,
- the fundamentals of illnesses and ill people,
- knowledge and skills in diagnosis, therapy, promotion of health, prevention and rehabilitation necessary to work as a doctor,
- practical experience in dealing with patients, including a multidisciplinary approach to illnesses and the ability to co-ordinate treatment,
- the ability to appreciate the implications of a doctor's work for health economics,
- the fundamentals of the influence that family, society and environment have on health, the organisation of health care and overcoming the consequences of illness,
- the spiritual, historical and ethical basis of a doctor's work

— on the basis of the most recent research.

Lectures, seminars *et al*

The University offers an education that corresponds to the above aims and that enables students to acquire the knowledge and skills that are required in the examinations.

To this end, not only **lectures** (*Vorlesungen*) but also **practical exercises** and **seminars** are held. (As well as this, the University can also arrange teaching in other formats, e.g. workshops. 'Practical exercises' include learning at the hospital bed and all forms of work experience.)

The teaching you receive should promote interdisciplinary thinking and should be based on problem-solving as far as this serves the purposes of effective tuition. Universities must offer tuition that is sufficiently cross-disciplinary and tuition in multi-disciplinary subjects. Teaching of natural sciences and a grounding in theory has to be concentrated on areas that are relevant to medicine.

Practical exercises means a student independently completing practical tasks under the direction and supervision of a member of teaching staff. During practical exercises, it is important that students are guaranteed a practical insight. As far as the subject matter requires it, work must take place in small groups. The subject matter must be relevant to the requirements of medical practice. Tuition on healthy subjects and – according to how advanced the student's skills are, and especially after the first part of the medical examination – on patients is emphasised.

Practicals are completed after the first part of the medical examination and are accompanied by a minimum of twenty per cent of theoretical tuition in seminars or workshops. Students should be given ample opportunity to work with patients under the direction and supervision of a doctor in as far as this is necessary for the acquisition of skills. Where directly patient-oriented tuition takes place, only a small group of patients can be tutored at once. To elaborate:

- groups no larger than six can be present at patient demonstrations,
- groups no larger than three can take part in patient examinations.

The total time dedicated to practical patient-based tuition is divided equally into patient demonstrations and patient examinations. In total, bedside tuition takes 476 hours. **Blockpraktika** ('block practicals') are one to six week long practicals dealing with differential diagnosis and therapy of the most important illnesses within a clinic and outpatient setting. *Blockpraktika* account for at least 20 per cent of practicals following the First Section of the medical examination.

In **seminars**, the content already taught through lectures and practical exercises is discussed in more detail and in a practice oriented way that concentrates on particular issues. The seminars are organised in a way that allows students to learn about important medical relationships. Seminars also include presentation of patients. Through their own contributions, students are expected to work through problems, in particular those of a multidisciplinary nature. The maximum number of participants per seminar is twenty.

Workshops are intended for discussion of material presented in practical exercises, lectures and seminars and to practise independent problem-solving. In workshops, the study group should particularly concentrate on case studies. The above methods of teaching are prepared and accompanied by **systematic lectures**.

Students are awarded certificates in order to prove their regular and successful participation in practical exercises, seminars and workshops as well as regular appearance at the lectures that prepare for them. A student has successfully participated in a practical exercise when he/she has, in an appropriate manner for the subject at hand, demonstrated that he/she has acquired the necessary knowledge and skills and is able to apply these in practice.

As student has successfully participated in a seminar when he/she has demonstrated an understanding of the course content in its correct context, and is able to explain it.

A successful workshop participant is a student who has demonstrated an ability to work independently and appropriately to the subject at hand, especially in solving case studies.

During the first section of the medical examination, and before the start of the *Praktisches Jahr* (internship), the student must choose one **Wahlfach** or elective course. For the first section, students can choose any elective course that the University offers; for the elective course in the second part, students may choose any area of study that the University has to offer. Performance in elective courses is evaluated and graded.

The above tutorials are regularly evaluated and the results are made public.

Praktisches Jahr (internship)

The *Praktisches Jahr* takes place in the last year of the medical degree. This internship is structured as follows, with each part lasting 16 weeks:

- Internal Medicine
- Surgery, and
- one elective subject.

The internship takes place in the University hospital or general practice surgeries.

During the internship – which should focus on patient-based training – students should expand and deepen the medical knowledge and competencies acquired during their degree. Sie sollen lernen, sie auf den einzelnen Krankheitsfall anzuwenden. To this end, they should carry out the medical tasks assigned to them according to their level of medical experience and under supervision and direction of the doctor responsible for them. As a rule, they should be present at the hospital every work day for the whole day. An integral part of the internship is participation in medical conferences, including pharmacological and clinical pathology meetings.

First aid training

Through theoretical and practical tuition, first aid training should convey a thorough knowledge of, and practical ability in, first aid. The training can take place in outside organisations (e.g. the Red Cross). Proof of having qualified to practise a statutorily regulated healthcare profession in Germany is also accepted as proof of having completed first aid training. Participation in first aid training is has to be proven in order to register for the first section of the medical examination. (Training in **Ersten ärztlichen Hilfe** (first aid for doctors) und in **trauma medicine** takes place in the first section of medical training.)

Nursing service

The three-month-long service as a nurse has to be completed at a hospital before beginning a medical degree or during the holidays before registering for the first section of the medical examination. The aim of this is to introduce the student, or prospective student, to the organisation and running of a hospital and to familiarise him/her with standard mechanisms of healthcare. Nursing service can be completed in three sections, each of a month in duration. This also includes nursing service completed abroad. Completed nursing service has to be proven as part of registration for the first medical examination.

Famulatur ('electives')

The *Famulatur* is intended to familiarise students with health care for patients in hospital and out-patients. The *Famulatur* is completed in the following stages:

1. one month in an organisation that offers out-patient care and is under the direction of doctors, or a dedicated medical practice,
2. two months in a hospital, and
3. one further month in either No. 1 or No. 2.

*Famulatur*s completed abroad are recognised as long as they are completed in one of the above.

The four-month *Famulatur* is to be completed during the holidays after passing the first section of the medical examination and before beginning the *praktisches Jahr* internship. It has to be proven during registration for the second section of the medical examination.

Form of Examination and Evaluation

The first and second sections of the medical examination are in written and oral/practical form.

The following grades are awarded to reflect performance in these examinations:

Grade definitions

„very good“ (1)	an excellent performance,
„good“ (2)	a performance well above average requirements
„satisfactory“ (3)	a performance that meets average requirements in every aspect
„sufficient“ (4)	a performance that meets requirements, despite weaknesses
„insufficient“ (5)	a performance that does not meet requirements due to significant weaknesses.

In order to pass the first and second sections of the medical examination, the written and oral examinations must be passed. If part of the examination is not passed, then that part must be repeated.

Written examinations: first and second section of the medical examination

The written examination consists of questions or tasks to be answered by the candidate under supervision. The candidate must indicate which of the options next to the question is the correct answer; in other words, it is a multiple choice examination. The questions should reflect the knowledge generally required of a doctor and the result should be a reliable indication of the candidate's knowledge. Written examinations can only be taken at set times, which are standardised across Germany.

In order to pass the written part of the first and second section of the medical examination, the candidate must achieve a score of 60 per cent or a score that is no more than 22 per cent below the average score for candidates who are sitting the examination for the first time within the recommended study time (for the first part of the medical examination, 2 years; for the second part, 6 years).

Oral examinations: first and second section of the medical examination

The oral-practical part of the first section and second part of the medical examination take place in the presence of an examination panel. The panel is constituted by a body that is appointed by state law. The panels consist of a chairperson and two or three others in the oral-practical part of the first part of the medical examination or, in the second section of the medical examination, of three to four others. Representatives have to be appointed to the posts of chair and other members. The chair and other members can be professors and other teaching staff who work in the area that is being examined. For the second section of the medical examination, the further members can include doctors who do not teach at the university for example specialists in General Medicine or other disciplines. No more than four candidates can be examined at once. To pass the oral-practical examination, a candidate must achieve at least the grade “sufficient”.

Results: the first and second section of the medical examination

Each of the individual elements of the first and second part of the medical examination can be repeated a maximum of twice. Further attempts are not allowed, even if a student were to start their medical degree from the beginning. Once an examination has been passed, the candidate is not allowed to repeat it.

Content of the first part of the medical examinations

The **written part** of the first section of the medical examination addresses the following areas:

- I. Physics for medics and Physiology,
- II. Chemistry for medics and Biochemistry/Molecular Biology
- III. Biology for medics and Anatomy
- IV. The fundamentals of Medical Physiology and of Medical Sociology

In the **oral-practical part** of the first part of the medical examination, the candidate is examined on Anatomy, Biochemistry/Molecular Biology and Physiology.

The written and oral-practical part of the examination in natural sciences and theoretical fundamentals should consist of clinical questions that concentrate on medically relevant pedagogic material.

The written examination takes place on two consecutive days. On both days, the examination lasts four hours. The first day examines parts I and II of the syllabus; the second day examines parts III and IV.

Content of the first section of the medical examination

Exercises in the first part of the medical examination address fundamental knowledge about the working of the human body; natural science examination in particular is to be confined to content that is relevant to medicine. The examinations are designed to ensure that this knowledge is related to medicine, including

- method, implementation and results of physical examination and other diagnostic processes (for example diagnostic interventions; laboratory-centred, visual and electrophysiological diagnosis apparatus; fundamental electrophysiological concepts),
- therapeutic, including pharmacological-therapeutic interventions,
- understanding how illnesses come about, how to manage and how to prevent them,
- the contours of the relationship between doctor and patient.

I. Physics for medics and physiologists

Cell and tissue physiology. Functioning of the heart & circulatory system, breathing system, digestive system, excretory system, endocrinal system, reproductive system, central and peripheral nervous system (including the senses), skeleto-muscular system, blood and lymphatic system, and human immune system. Interaction of the systems. Adaptive Mechanisms. Age-related specifics. Applied physiology including nutritional, sport, occupational and environment physiology. The basics of mathematical modelling of physical processes. Knowledge of medically-relevant issues in mechanics, acoustics, thermal dynamics, electrodynamics, optics and the physics of ionising radiation. The basics of measurement and medical technology. Physics for medics and physiologists.

II. Chemistry for medics and biochemistry/molecular biology

Physical-chemical foundations of metabolism, the effects of enzymes and their movement. Biochemistry of amino acids and proteins, carbohydrates, lipids and nucleic acid. Hormone effects. Basics of Microbiology. Biochemical foundations of Immunology. Biochemical aspects of cell and organ physiology. Fundamentals of Nutritional Medicine. Knowledge of medically important elements and relationships, basics of thermal dynamics and kinetics of chemical reactions.

III. Biology for medics and Anatomy

Histology includes the ultrastructure of cells and tissue. Histo-chemistry. Macroscopic and microscopic Anatomy of the circulation organs, the bowels, the nervous system and the sensory organs, the musculoskeletal system, the skin, the endocrinal system and the immune system. Interaction of the systems. Zusammenwirken der Systeme. Age-related specifics. Topographic anatomy. Fundamentals of early development of humans and organ development. General cytology. Fundamentals of human genetics. Genetics. Fundamentals of microbiology. Fundamentals of ecology.

IV. The foundations of Medical Psychology and Medical Sociology

Psychobiological basis of behaviour and survival. Perception, learning, emotions, motivation, psychomotricity. Personality, development, socialisation. Social behaviour, attitudes, interaction and communication, role relationships. Social stratification, population structure, morbidity structure. Structures of health care. Fundamentals of psychological and sociological method.

The **oral-practical examinations** lasts between 45 and 60 minutes per candidate with a maximum of four candidates per session. In the exam, during which practical exercises are set and cross-disciplinary questions are asked, the candidate has to demonstrate that he/she has acquainted himself/herself with the course content, in particular

- the fundamentals and foundations of the content of the course for the subject being examined,
- their significance for medical, especially clinical, contexts
- the necessary knowledge and skills to continue studying Medicine.

The examination panel should set practical tasks for the candidate before the examination and the candidate must then submit, and justify, the results either orally or in a written report.

Examination dates

The written part of the examination for the First Section of the Medical Examination takes place in March or August and for the Second Section of the Medical Examination in April and October. The oral-practical examination for the First Section of the Medical Examination take place in the holidays, or in the last week before the holidays if necessary; for the Second Section of the Medical Examination, either between April and June or October and December.

Second Section of the Medical Examination

Those who have certificates to prove they have passed the necessary courses between the First Section of the Medical Examination and the beginning of the *Praktisches Jahr* (internship) is eligible to sit the Second Section of the Medical Examination (see below). Individual universities specify in their study regulations the details of requirements and process for proving successful completion of the courses. **Certificates** must be presented for the following subjects:

1. General Medicine,
2. Anaesthetics,
3. Occupational Medicine, Social Medicine,
4. Ophthalmology,
5. Surgery,
6. Dermatology, Venereology,
7. Gynaecology, Obstetrics,
8. Ear Nose and Throat Medicine,
9. Human Genetics,
10. Hygiene, Microbiology, Virology,
11. Internal Medicine,
12. Paediatrics,
13. Clinical Chemistry, Laboratory Diagnosis,
14. Neurology,
15. Orthopaedics,
16. Pathology,
17. Pharmacology, Toxicology,
18. Psychiatry and Psychotherapy,
19. Psychosomatic Medicine and Psychotherapy
20. Pathology,
21. Urology,
22. Elective Subject.

Candidates must also present certificates for the following **interdisciplinary courses**:

1. Epidemiology, Medical Biometry and Medical Informatics,
2. History, Theory and Ethics of Medicine,
3. Health Economics, Health Care Systems, Public Health,
4. Infectious Diseases, Immunology,
5. Clinical-Pathological Conference,
6. Clinical Environmental Medicine,
7. Medicine of the Ageing and the Elderly,
8. Emergency Medicine,
9. Clinical Pharmacology/Pharmacotherapy,
10. Prevention, Health Promotion,
11. Medical Imaging, Radiotherapy, Radiation Protection,
12. Rehabilitation, Physical Medicine, Natural Healing Methods.

Individual universities specify the details of tuition in the above areas in their study regulations. Tuition should be thematic, targeted at the subject and should promote connections between subjects. The total amount of tuition is a minimum of 868 hours.

In addition to the aforementioned certificates, students must prove that they have regularly attended five **Blockpraktika** ('block practicals') in

1. Internal Medicine,
2. Surgery,
3. Paediatrics,
4. Gynaecology,
5. General Medicine.

All certificates include **grades**.

Content of Second Section of the Medical Examination

Practical tasks from the practical clinical subjects are set for the candidate. Further, theoretical clinical and interdisciplinary and cross-subject questions are also included.

In respect of the subject being examined, the candidate has to show that he/she has known how to apply the knowledge that he/she has acquired during his/her degree and that he/she possesses the necessary interdisciplinary fundamental medical knowledge and skills. In particular, he/she has to show that he/she:

- has mastered correctly taking medical history, clinical examination methods and basic laboratory methods and that he/she can interpret the results,
- is able to collect and request information as necessary for the purposes of making a diagnosis, to recognise the different meaning and importance of different pieces of information for the diagnosis and to assess the information critically within the framework of differential diagnosis,
- possesses sufficient knowledge in Pathology and Pathopsychology and is able to recognise pathogenetic relationships,
- has mastered indication for conservative and operative therapy, as well as the most important therapeutic principles and can make decisions that are reasonable in terms of health care economics,
- has knowledge of the fundamentals of pharmacology, pharmacotherapy, especially the application of medically significant medicines, their indication and contraindication, also having regard to health-care-economic aspects, and is familiar with the rules for prescribing medication and the pharmaceutical regulations that a doctor needs to comply with,
- knows the fundamentals and basis of health promotion, prevention and rehabilitation as well as respecting environmental, familial and professional influences on health,
- recognises the necessity and fundamental principles of co-ordinating treatment regimes, and
- is aware of the general rules of behaviour appropriate for a doctor in the presence of patients, also having regard to ethical considerations, knows how to behave appropriately to the situation and is able to offer assistance and supervision of chronically and irredeemably ill persons in their charge.

Written part of the examination

The **written part of the examination** includes a student's knowledge and skills that he/she will need in order to carry out the duties of a doctor independently and in his/her own responsibility. The examination is related to cases, especially through case studies. The content of the examination addresses, in particular, the following:

- practical requirements of a working doctor,
- the most important clinical pictures,
- interdisciplinary and problem-oriented questions.

The examination takes place over three consecutive days and lasts five hours per day.

The multiple choice examination consists of 320 questions.

Content

The examination tasks should be geared towards the clinical pictures and health disorders that are most relevant to a doctor's job. That is, those that are noted on account of their frequency, their consequences for the individual or their consequences for society.

They include:

- Diseases of the blood, and of blood-creating organs, the circulatory system, the breathing organs, the digestive organs, adenoids with internal secretion, metabolism and kidneys. Immunological and allergic diseases, rheumatism, infectious diseases, blastoma diseases.
- Diseases of the central nervous system, the peripheral nerves and the musculature. Brain, endogenous, psychotic and personality reactive disorders. Neuroses, addictions, suicidality. Sexual behaviour and experience disorders, psychosomatic illnesses and functional disorders. Communicative disorders.
- Illnesses of the perinatal period, of children and youth, behaviour and development and disabilities of children and youths.
- Diseases of the skin, their adnexa and the mucous membranes of external bodily cavities.. Venereal diseases.
- Wound treatment. Asepsis, antisepsis, deformities, diseases and injuries of the head, throat, spine, thorax, abdomen, extremities, heart, blood vessels, kidneys, urinary tract collection system, external and internal genital organs, of the central and peripheral nervous system and the sense organs. Accidents and poisonings.
- Disorders of sexual development and fertility. Family planning. Pregnancy, advice and judgment in conflict situations, especially the medical, legal and ethical aspects of abortion, high risk pregnancy, advice and care during pregnancy. Birth and high-risk birth. Puerperal diseases. Infections and blastomas of the female genital organs.

The examination questions should address one or several of the following aspects:

- Physical, mental and psychic development and its variants. Age-specific aspects of health disorders, their diagnosis and treatment. Clinical genetics, including human genetic advice.
- Etiology, Pathogenesis, specialised Pathology, Pathophysiology.
- Symptomatology, diagnosis, differential diagnosis, performing and interpreting physical, laboratory-medical and technical examinations, indications, contraindications.
- Application of conservative, operative and physical operative techniques, including radiotherapy, fundamental principles of operative techniques, fundamental principles of pre- and post-therapy, clinical pharmacology and pharmacotherapy, specialised therapeutic procedures, indications, contraindications, prognosis, rehabilitation, health advice, treatment of long-term patients, incurable patients and the terminally ill, pain relief and palliative care.
- Recognition and treatment of acutely life-threatening circumstances, emergency and disaster medicine.
- Fundamental principles of general, hospital and epidemic hygiene.
- Individual, epidemiological, social medical aspects of pathogenesis and prevention, Public Health.

- Occupation medicine examinations. Analysis of workplace and job-related stress factors. Occupational illnesses Berufskrankheiten.
- Producing medical expert opinions. Legal aspects of working as a doctor.

Oral-practical examination

The oral-practical examination is conducted over the course of two days. Each day consists of an examination lasting between 45 and 60 minutes per candidate. On the first day, the practical examination and presentation of a patient take place.

The oral-practical part of the examination is always patient-oriented and consists of questions on Internal Medicine, Surgery and the elective subject that the candidate chose for his/her practical training.

Before the examination, the examination panel must allocate each candidate one or several patients for him/her to take the medical history of and to examine. The candidate must then prepare a report that contains the taking of medical history, diagnosis, prognosis, therapy plan and epicrisis. The report has to be submitted to a member of the examination panel as soon as it is completed and is evaluated as part of the examination.

Upon successful completion of a medical degree, one can apply to the responsible state authority for **registration as a doctor**.

Practical exercises, courses and seminars, attendance of which must be proven in order to sit the Second Part of the Medical Examination:

1. Scientific Basis of Medicine
- 1.1 Practical in Physics for Medics
- 1.2 Practical in Chemistry for Medics
- 1.3 Practical in Biology for Medics
2. Practical in Physiology
3. Practical in Biochemistry/Molecular Biology
4. Course in Macroscopic Anatomy
5. Course in Microscopic Anatomy
6. Course in Medical Psychology and Medical Sociology
7. Seminar in Physiology
8. Seminar in Biochemistry/Molecular Biology
9. Seminar in Anatomy
10. Seminar in Medical Psychology and Medical Sociology, both with clinical emphasis.
- II.
1. Practical in Introduction to Clinical Medicine (including presentation of patients)
2. Practical in Exploration of Occupational Field
- III. Practical in Medical Terminology

Practical exercises, courses and seminars, attendance of which must be proven in order to sit the Second Part of the Medical Examination:

1. General Medicine,
2. Anaesthesia,
3. Occupational Medicine, Social Medicine,
4. Ophthalmology,
5. Surgery,
6. Dermatology, Venereology,
7. Gynaecology, Midwifery,
8. Ear Nose and Throat,
9. Human Genetics,
10. Hygiene, Microbiology, Virology,
11. Internal Medicine,
12. Paediatrics,
13. Clinical Chemistry, Laboratory Diagnosis,
14. Neurology,
15. Orthopaedics,
16. Pathology,
17. Pharmacology, Toxicology,
18. Psychiatry and Psychotherapy,
19. Psychosomatic Medicine and Psychotherapy
20. Pathology,
21. Urology,
22. Elective course

Where offered by individual universities, the following subjects can be taken as **elective courses**:

Anaesthetics	Microbiology, Virology and Epidemiology
Angiology	Facial, Oral and Maxillofacial Surgery
Occupational Medicine	Neonatology
Ophthalmology	Nephrology
Surgery	Neurosurgery
Diagnostic Radiology	Neurology
Endocrinology	Neuropathology
Gynaecology	Neuroradiology
Gastroenterology	Nuclear Medicine
Vascular Surgery	Orthopaedics
ENT	Pathology
Haematology and Oncology	Pharmacology and Toxicology
Surgery of the Hands	Phoniatry and Paedaudiology
Skin Diseases and STIs	Physical Therapy
Heart Surgery	Pneumology
Hygiene and Environmental Medicine	Psychiatry
Internal Medicine	Psychotherapy
Intensive Care	Pathology
Cardiology	Rheumatology
Paediatrics	Sport Medicine
Paediatric Surgery	Radiotherapy
Paediatrics	Thorax Surgery
Paediatric Cardiology	Transfusion Medicine and Haemostaseology
Paediatric Oncology	Environmental Medicine
Paediatric Radiology	Trauma Surgery
Clinical Genetics	Urology
Clinical Pharmacology and Toxicology	Visceral Surgery
Clinical Studies and Evidence Based Medicine	
Laboratory Medicine	
Medical Informatics	

Certificates in **interdisciplinary areas/ integrated courses**:

1. Epidemiology, Medical Biometry and Medical Informatics,
2. Geschichte, Theorie, Ethik der Medizin,
3. Health Economics, Health Systems, Public Health,
4. Infectious Diseases and Immunology,
5. Clinical-Pathological Conference,
6. Clinical Environmental Medicine,
7. Medicine of the Ageing and Elderly,
8. Emergency Medicine,
9. Clinical Pharmacology/Pharmacotherapy,
10. Prevention, Health Promotion,
11. Medical Imaging, Radiotherapy, Radiation Protection,
12. Rehabilitation, Physical Medicine, Natural Healing Methods.

Certificates for the following five **Block Practicals (Clinical Rotation)**:

1. Internal Medicine,
2. Surgery,
3. Paediatrics,
4. Gynaecology,
5. General Medicine.

German grading system and ECTS grades

ECTS Grade	Percentage of students who are usually awarded this grade	Definition	German grade
A	10	Excellent – Outstanding performance with only some errors	1
B	25	Very good – Above the average standard but with some errors	2
C	30	Good - Generally good work with a number of notable errors	3
D	25	Satisfactory – Fair but with significant shortcomings	4
E	10	Sufficient – Passable performance, meeting the minimum criteria	4
FX	-	Fail – Some more work required before the credit can be awarded	5
F	-	Fail – considerable further work is required	6

Das Medizinstudium in Deutschland



UNIVERSITÄT
DES
SAARLANDES



Ausbildungsabschnitt		Prüfungen
1. Jahr	1. Studienabschnitt [Vorklinik] Grundlagenwissenschaften	
2. Jahr		1. Abschnitt Ärztliche Prüfung
3. Jahr	2. Studienabschnitt [Klinik] Klinisch theoretische und praktische Ausbildung	
4. Jahr		
5. Jahr		
6. Jahr	Praktisches Jahr [PJ]	2. Abschnitt Ärztliche Prüfung
		Approbation als Arzt

Part III

Course Catalogue Medicine

Time Tables or Course Catalogues of the Medical Faculty are available at:

<http://www.uniklinikum-saarland.de/de/lehre>

the ERASMUS-/ ECTS-InfoPackage can be find

www.uk-s.eu/erasmus

Course Catalogue Academic Year 2008/ 2009

Study Years 1-2

D-LSUD-	Subject³	hours	CP	
1-MED-Chem01	Medical Chemistry	42	8,00	Practical
2-MED-Biol01	Medical Biology	42	8,00	Practical
1-MED-Phys01	Medical Physics	42	8,00	Practical
2-MED-Physiol01	Physiology	84	16,00	Practical
1-MED-Bioch01	Biochemistry/ Molecular Biology	84	16,00	Practical
1-MED-Anat01	Macroscopic Anatomy	98	18,00	Course
1-MED-Anat02	Histology	49	7,00	Course
1-MED-Psych01	Med. Psychology/ Med. Soziology	42	7,00	Course
2-MED-Physiol02	Physiology	28	5,00	Seminare
2-MED-Bioch02	Biochemistry/ Molecular Biology	28	5,00	Seminare
2-MED-Anat03	Anatomy	28	5,00	Seminare
1-MED-Psych02	Med. Psychology/ Med. Soziology	14	2,00	Seminare
2-MED-IntroClinMed	Introduction to Clinical Medicine	28	1,00	Practical
1-MED-MedProf	Introduction to Med. Professions	12	1,00	Practical
1-MED-Termin	Medical Terminology	14	1,00	Practical
1-MED-FirstAid	First Aid	16	1,00	Course
1-2-MED-W-[xxx]	*Subject of Choice	14	1,00	See below

D-LSUD-	Subject⁴	hours	CP	
2-MED-Anat04	Clinical-anatomical Seminare	56	3,00	Seminare
2-MED-Biol04	Clinical-biological Seminare	14	1,00	Seminare
2-MED-Bioch03	Clinical-Biochemical Seminare	28	2,00	Seminare
1-MED-Chem02	Clinical-chemical Seminare	14	1,00	Seminare
2-MED-Physiol03	Clinical-physiological Seminare	28	2,00	Seminare
1-MED-Phys02	Clinical-biophysical Seminare	14	1,00	Seminare

*Subjects of Choice

D-LSUD-	Fächer⁵	hours	CP	
1-2-MED-W-Anat01	Living Anatomy	28	1,00	Seminare
1-2-MED-W-Anat02	Ultrastructure of human tissue	28	1,00	Seminare
1-2-MED-W-Bioch01	Current Research Themes in Biochemistry and Molecular Biology	28	1,00	Seminare
1-2-MED-W-Bioch02	Polymer Synthesis	28	1,00	Seminare
1-2-MED-W-HumGen01	Genetic Diagnosis	28	1,00	Seminare
1-2-MED-W-Phys01	Radiological Biophysics	28	1,00	Seminare
1-2-MED-W-Physiol07	Electrocardiography	28	1,00	Seminare
1-2-MED-W-Physiol05	Neuropathophysiology	28	1,00	Seminare
1-2-MED-W-Physiol06	Vegetative Pathophysiology	28	1,00	Seminare

³ The subjects are not marked, but are assessed as „passed“ or „failed“ depending on attendance

⁴ The subjects are not marked, but are assessed as „passed“ or „failed“ depending on attendance

⁵ The Subject of Choice is given a mark

Study Years 3-5⁶

D-LSUD-	Subject	hours	CP	
5-MED-GenMed	General Medicine	24	3,00	Course
4-MED-Anae01	Anaesthetics	14	1,00	Lecture
4-MED-Anae02		14	1,00	Praktikum
5-MED-OccMed	Occupational Medicine	24	4,00	Course
4-MED-Opht01	Ophthalmology	28	2,00	Lecture
4-MED-Opht02		14	1,00	Practical
3-MED-Surg01	Surgery	76	6,00	Lecture
4-MED-Surg02		50	3,00	Seminare/ Practical
5-MED-Derm01	Dermatology, Veneral Diseases	28	3,00	Lecture
5-MED-Derm02		21	3,00	Praktikum
4-MED-Gyn01	Obstetrics & Gynaecology	28	3,00	Lecture
4-MED-ENT01	Ear, Nose and Throat	28	2,00	Lecture
3-MED-ENT02		14	1,00	Practical/ Seminare
3-MED-HumGen	Human Genetics	28	2,00	Lecture
3-MED-Microbiol	Hygiene, Microbiology, Virology	56	5,00	Practical
3-MED-IntMed01	Internal Medicine	28	2,00	Lecture1
3-MED-IntMed02		84	7,00	Practical
4-MED-IntMed03		28	3,00	Seminare
4-MED-IntMed04		28	2,00	Lecture2
4-MED-Paed01	Paediatrics	14	2,00	Course
3-MED-Paed02		42	4,00	Seminare
3-MED-ClinChem	Clinical Chemnistry & Pathobiochemnistry	28	1,00	Practical
5-MED-Neurol01	Neurology	42	6,00	Vorlesung
5-MED-Neurol02		28	3,00	Praktikum
3-MED-Ortho01	Orthopaedics	28	1,00	Lecture
4-MED-Ortho02		28	2,00	Practical
3-MED-Patho101	Pathology	70	7,00	Lecture1
3-MED-Patho102		56	7,00	Practical/ Course
4-MED-Patho203		56	7,00	Lecture2
4-MED-Patho204		28	7,00	Practical/ Course
3-MED-Patho2Neur		14	7,00	Lecture3
3-MED-Pharm01	Pharmacology, Toxicology	112	9,00	Lecture
3-MED-Pharm02		56	2,00	Course
5-MED-Psychiatry01	Psychiatry and Psychotherapy	28	3,00	Lecture
5-MED-Psychiatry02		28	3,00	Practical
5-MED-Psychiatry03		14	1,00	Seminare
5-MED-PsySom01	Psychosomat. Medicine/Psychotherapy	28	3,00	Lecture
5-MED-PsySom02		28	3,00	Practical
5-MED-LegMed01	Legal/ Forensic Medicine	28	3,00	Course
4-MED-Uro01	Urology	28	2,00	Lecture
4-MED-Uro02		20	2,00	Practical
5-MED-W-[xxx]	Subject of Choice*	14	1,50	See below

⁶ The Subjects, Integrated Subjects and Block Practicals are given marks

Integrated Subjects

D-LSUD-	Subject	hours	CP	
3-MED-Biometry01	Epidemiology, Med. Biometrics/	28	1,00	Practical
3-MED-Biometry02	Medical Informatics	28	1,00	Lecture
3-MED-History	History, Theory and Ethics of Medicine	14	1,00	Lecture
5-MED-SocMed	Social Medicine; Health Economics, Public Health Disease Prevention, Health Promotion Rehabilitation, Physical Medicine, Natural Healing Methods	36	7,00	Combined Course
5-MED-PubHealth				
5-MED-Prevent				
5-MED-RehaPhys				
4-MED-InfectImmun	Infectious Diseases & Immunology	28	3,00	Course
4-MED-PathConf	Clinical-pathological Conference	14	1,00	Conference
5-MED-EnvirMed	Clinical Environmental Medicine	14	1,00	Lecture/ Seminare
5-MED-Age	Medicine of the Ageing and the Elderly	14	1,00	Lecture
4-MED-Emergency01	Emergency Medicine	28	2,00	Lecture
4-MED-Emergency02		7	1,00	Practical
5-MED-ClinPharm	Clinical Pharmacology, Pharmacotherapy	28	3,00	Lecture
3-5-MED-MedImage	Medical Imaging, Radiotherapy, Radiation Protection	84	6,00	Course

Block Practicals

D-LSUD-	Fächer	UStd.	CP	Form
4-MED-IntMed-Block	Internal Medicine	80	8,00	Block Practical
4-MED-Surg-Block	Surgery	80	8,00	Block Practical
4-MED-Paed-Block	Paediatrics	40	3,50	Block Practical
4-MED-Gyn-Block	Obstetrics and Gynaecology	40	3,50	Block Practical
4-MED-GenMed-Block	General Medicine	40	3,50	Block Practical

Study Year 6 („Practical Year“)⁷

D-LSUD-	Fächer	Duration	CP	
6-MED-IntMed-PJ	Internal Medicine	4 Months	20,00	All day clinical work
6-MED-Surg-PJ	Surgery	4 Months	20,00	All day clinical work
6-MED-W-PJ	Subject of Choice	4 Months	20,00	All day clinical work

Assessment: 2nd Part of Medical State Exam

⁷ The PJ attachments are not given marks

***Subjects of Choice (Study Years 3-5)⁸**

D-LSUD-	Fächer	UStd.	CP
5-MED-W-Angio	Angiology	14	1,00
5-MED-W-OccMed	Occupational Medicine	14	1,00
5-MED-W-Opht	Ophthalmology	14	1,00
5-MED-W-GenSurg	Surgery	14	1,00
5-MED-W-Radiol	Radiological Diagnosis	14	1,00
5-MED-W-Endoc	Endocrinology, Diabetology	14	1,00
5-MED-W-Gyn	Gynaecology	14	1,00
5-MED-W-Gastro	Gastroenterology	14	1,00
5-MED-W-VascSurg	Vascular Surgery	14	1,00
5-MED-W-ENT	Ear, Nose, Throat	14	1,00
5-MED-W-HaemOnc	Haematology & Oncology	14	1,00
5-MED-W-HandSurg	Surgery of the hands	14	1,00
5-MED-W-Derm	Dermatology, Veneral Diseases	14	1,00
5-MED-W-CardSurg	Heart Surgery	14	1,00
5-MED-W-HygEnvir	Hygiene & Environmental Medicine	14	1,00
5-MED-W-IntMed	Internal Medicine	14	1,00
5-MED-W-IntCare	Intensive Care	14	1,00
5-MED-W-Card	Cardiology	14	1,00
5-MED-W-PsychPaed	Paediatric Psychiatry	14	1,00
5-MED-W-ChildSurg	Paediatric Surgery	14	1,00
5-MED-W-Paed	Paediatrics	14	1,00
5-MED-W-ChildCard	Paediatric Cardiology	14	1,00
5-MED-W-ChildOnc	Paediatric Oncology	14	1,00
5-MED-W-ChildRad	PaediatricRadiology	14	1,00
5-MED-W-ClinGen	Clinical Genetics	14	1,00
5-MED-W-ClinPharm	Clinical Pharmacology	14	1,00
5-MED-W-ClinStud	Clinical Studies/ evidence bades medicine	14	1,00
5-MED-W-LabMed	Clinical Chmenistry	14	1,00
5-MED-W-MedInf	Medical Informatics	14	1,00
5-MED-W-Microbiol	Microbiology, Virology, Epidemiology	14	1,00
5-MED-W-FaceSurg	Facial, <u>oral and maxillofacial surgery</u>	14	1,00
5-MED-W-Neonat	Neonatology	14	1,00
5-MED-W-Nephro	Nephrology	14	1,00
5-MED-W-NeuroSurg	Neuro Surgery	14	1,00
5-MED-W-Neurol	Neurology	14	1,00
5-MED-W-NeuroPath	Neuropathology	14	1,00
5-MED-W-NeuroRad	Neuroradiology	14	1,00
5-MED-W-NuclMed	Nuclear Medicine	14	1,00
5-MED-W-Ortho	Orthopaedics	14	1,00
5-MED-W-Patho	Pathology	14	1,00
5-MED-W- PharmTox	Pharmacology & Toxicology	14	1,00
5-MED-W-Phon	Phoniatriy und Paedaudiology	14	1,00
5-MED-W-PhysTher	Physical Therapy	14	1,00
5-MED-W-Pneumo	Pneumology	14	1,00
5-MED-W-Psych	Psychiatry	14	1,00
5-MED-W-PsychTher	Psychotherapy	14	1,00
5-MED-W-LegMed	Legal/ Forensic Medicine	14	1,00
5-MED-W-Rheuma	Rheumatology	14	1,00
5-MED-W-SportsMed	Sports Medicine	14	1,00
5-MED-W-RadTher	Radiotherapy	14	1,00
5-MED-W-ThorSurg	Thoracal Surgery	14	1,00
5-MED-W-Hämost	Transfusion Medicine und Haemostaseology	14	1,00
5-MED-W-EnvirMed	Environmental Medicine	14	1,00
5-MED-W-Trauma	Trauma Surgery	14	1,00
5-MED-W-Uro	Urology	14	1,00
5-MED-W-ViscSurg	Visceral Surgery	14	1,00

⁸ The Subjects of Choice are marked.

General Medicine

Course General Medicine

Clinical Required Course

ECTS Course Code:	D-LSUD-5-MED-GenMed
ECTS Credits:	3,00
Coordinator:	Dr. med. J. Jäger (Sprecher der Lehrbeauftragten)
Study Year:	5. Study Year (5.klin. Semester)
Qualification:	First Part of Medical State Exam
Number of lessons	28 Ustd.
Assessment:	marked written Assessment
Content	Diagnosis and Therapy in General Medicine. Practicals and Hospitations.
Remarks	Course offered in Summer and Winter Term.

Blockpractical General Medicine

Clinical Required Course

ECTS Course Code:	D-LSUD-4-MED-GenMed-Block
ECTS Credits:	3,50
Coordinator:	Dr. med. J. Jäger (Sprecher der Lehrbeauftragten)
Study Year:	5. Study Year (5.or 6. klin. Semester)
Qualification:	First Part of Medical State Exam Certification "Course General Medicine"
Number of lessons	40 Ustd.
Assessment:	OSCE (marked)
Content	Diagnosis and Therapy in General Medicine. Practicals and Hospitations.
Remarks:	-

Anaesthesiology

Lecture Anaesthetics

Clinical Required Course

ECTS Course Code:	D-LSUD-4-MED-Anae01
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. R. Larsen
Study Year	4. Study Year (2. klin. Semester)
Qualification:	1st Part of Medical State Exam
Number of lessons:	14 Ustd.
Assessment:	marked written Assessment
Content	Introduction in Theory and Practice of Anaesthetics
Remarks:	Winter- and Summer Term.

Blockpractical Anaesthetics

Clinical Required Course

ECTS Course Code:	D-LSUD-4-MED-Anae02
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. R. Larsen
Study Year:	4. Study Year (2. klin. Semester)
Qualification:	1st Part of Medical State Exam Attendance and successful Assessment of D-LSUD-4-MED-Anae01
Number of lessons:	16 Ustd. (2 days)
Assessment:	Marked Oral Assessment.
Content	Introduction in Basics of Anaesthetics. Demonstrations and activity in theatre
Remarks	Winter and Summer Term.

Anatomy

The Anatomy courses (with exception of the two courses offered as subject of choice) are organized in winter term in the form of an form of a integrated course.

Lectures Introduction to Anatomy

Pre-clinical required course

ECTS Course Code:	D-LSUD-1-MED-Anat00
ECTS Credits:	1,00
Coordinator:	Professors of Department of Anatomy
Study Year:	1. Study Year (1. pre-clinical Semester)
Qualification:	none
Number of lessons:	20 Ustd.
Assessment:	none
Content	Introduction to Human Anatomy
Remarks:	offered in winter terms.

Lectures Anatomy

Pre-clinical required course

ECTS Course Code:	D-LSUD-2-MED-Anat01a
ECTS Credits:	1,00
Coordinator:	Professors of Department of Anatomy
Study Year:	2. Study Year (3. pre-clin. Semester)
Qualification:	none
Number of lessons:	36 Ustd.
Assessment:	Adequate attendance
Content upper and nervous	Basic Human Embryology, General Human Anatomy, Anatomy of lower limbs, Head and Neck, Thorax, Abdomen and Organs and of the system . Clinical Applications.
Remarks	offered within the framework of the integrated Anatomy Course in the winter term.

Course Macroscopic Anatomy

Pre-clinical required course

ECTS Course Code:	D-LSUD-2-MED-Anat01
ECTS Credits:	18,00
Coordinator:	Professors of Department of Anatomy
Study Year:	2. Study Year (3. pre.-clin. Semester)
Qualification:	The basis of Anatomy; bones, muscles and joints
Number of lessons:	98 Ustd.
Assessment:	adequate attendance and oral Assessments
Content	Practical Exercises in the dissection room. Dissection of the whole human body
Remarks	offered during the winter term within the framework of the integrated anatomical courses.

Course Histology

Pre-clinical required course

ECTS Course Code:	D-LSUD-2-MED-Anat02
ECTS Credits:	7,00
Coordinator:	Professors of Department of Anatomy
Study Year:	2. Study Year (3. pre.-clin. Semester)
Qualification:	none
Number of lessons:	49 Ustd.
Assessment:	adequate attendance; written examination
Content	Practical Exercises in the use of a microscope with complimentary lectures. General Histology and Histology of the Human Body.
Remarks:	offered during the winter term within the framework of the integrated anatomical courses.

Seminar Anatomy

Pre-clinical required course

ECTS Course Code:	D-LSUD-2-MED-Anat03
ECTS Credits:	5,00
Coordinator:	Professors of Department of Anatomy
Study Year:	2. Study Year (3. pre.-clin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.

Assessment:	adequate attendance; oral examination
Content	Chosen Topics in Anatomy.
Remarks	The seminars are offered in the winter term within the framework of the integrated anatomical courses.

Clinical-anatomical Seminar

Pre-clinical required course

ECTS Course Code:	D-LSUD-2-MED-Anat04
ECTS Credits:	3,00
Coordinator:	Professors of Department of Anatomy
Study Year:	2. Study Year (3. pre-clinical Semester)
Qualification:	none
Number of lessons:	56 Ustd.
Assessment:	adequate attendance; oral examination
Content	Chosen topics from clinical anatomic themes.
Remarks:	The seminars are offered in the winter term within the framework of the integrated anatomical courses.

Subject of Choice Living Anatomy

Pre-clinical course

ECTS Course Code:	D-LSUD-1-2-MED-W -Anat01
ECTS Credits:	1,00
Coordinator:	Dr. med. Kurt W. Becker
Study Year:	2. Study Year (4. pre.-clin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.
Assessment:	adequate attendance; marked written examination
Content	Small group teaching with practical exercises. Surface Anatomy , orientation around the human body. Anthropometric measurements of bones and body parts; the basic examination methods of the body with inspection and palpation of the body, auscultation of the arteries, superficial veins, venepuncture, blood pressure measurement, palpation of the lymph nodes, dermatomes, sensation, testing motor function, testing of reflexes; the surface projection of the internal organs and the basic principles of palpation, percussion, auscultation of the organs.
Remarks.	Offered in summer term to a limited no. of participants. (2 groups of 15 students).

Subject of Choice Ultrastructure of Human Tissue

Pre-clinical course

ECTS Course Code.	D-LSUD-2-MED-W -Anat02
ECTS Credits.	1,00
Coordinator:	Prof. Dr. med. Dr. h.c Pedro Mestres Dr. rer. nat. Michael Laue
Study Year:	2. Study Year (4. pre.-clin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.
Assessment:	adequate attendance; marked written examination
Content	Techniques of Ultramicroscopy. The Ultrastructure of human tissues.
Remarks:	offered in summer term to a limited no. of participants

Practical Introduction to Clinical Medicine (Part Anatomy)

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-2-MED-IntroClinMed
ECTS Credits:	1,00
Coordinator:	Professors of Department of Anatomy
Study Year:	2. Study Year (3. pre.-clin. Semester)
Qualification:	none
Number of lessons:	9 Ustd.
Assessment:	adequate attendance
Content	Clinically relevant topics and clinical cases connected directly to Anatomy. Patient presentation
Remarks:	The Practical is part of the whole practical of the Introduction to Clinical Medicine and is offered in the winter term within the framework of the integrated course of Anatomy.

Occupational Medicine

Course Occupational Medicine

Compulsory Clinical Course

ECTS Course Code:	D-LSUD-4-MED-OccMed
ECTS Credits:	4,00
Coordinator:	Univ.-Prof. Dr. med. A. Buchter
Study Year:	5. Study Year (5. clin. Sem.)
Qualification:	Clinical knowledge from the 4th clinical semester
Number of lessons:	24 Ustd.
Assessment:	marked written examination
Content	Diagnosis and intervention in the field of occupational medicine; disease of the locomotor system, ergonomics, physical influences, medical professions, infectious diseases, diseases of the liver, work related diseases, stress, heart and blood pressure disease, malignant disease, causes and prevention, metals, kidney diseases, dental diseases, ocular diseases, solvents, nervous system diseases, occupational causes of airway disease, substances causing sensitivity reactions, skin disease.
Remarks	offered in winter and summer term.

Course Environmental Medicine

Compulsory Clinical Course

ECTS Course Code:	D-LSUD-5-MED-EnvirMed
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. A. Buchter
Study Year:	5. Study Year (5. clin. Semester)
Qualification:	none
Numer of lessons:	14 Ustd.
Assessment:	marked written Klausur. Benotung.
Content	Special topics of Environmental Medicine.
Remarks:	offered in summer and winter term.

Ophthalmology

Lecture Ophthalmology

Compulsory Clinical Course

ECTS Course Code:	D-LSUD-5-MED-Opht01
ECTS Credits:	2,00
Coordinator:	Univ.-Prof. Dr. med. B. Seitz
Study Year:	4. Study Year (3. clin. Semester)
Qualification:	First Part of Medical State Exam
Number of lessons:	28 Ustd.
Assessment:	marked written examination
Content	Introduction to diagnosis and therapy in Ophthalmology. Clinical Cases discussion and presentation.
Remarks	offered in summer and winter term.

Practical Ophthalmology

Compulsory Clinical Course

ECTS Course Code:	D-LSUD-5-MED-Opht02
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. B. Seitz
Study Year:	3. Study Year (2. clin. Semester)
Qualification:	First Part of Medical State Exam
Number of lessons:	14 Ustd.
Assessment:	marked written examination
Content	Practical Exercises in examining patients in Ophthalmology. Case presentation.
Remarks	offered in summer and winter term.

Introduction to Medical Professions

Practical Introduction to Medical Professions

Preclinical Compulsory Course

ECTS Course Code:	D-LSUD-1-MED-MedProf
ECTS Credits:	1,00
Coordinator:	Prof. Dr. med. Cornelius Welter
Study Year:	1 Study Year (1. vorklin. Semester)
Qualification:	none
Number of lessons:	12 Ustd.
Assessment:	adequate attendance
Content	Overview and information about the different types of medical specialities with visits to several clinics and medical services.
Remarks	offered at the end of winter term.

Medical Imaging, Radiotherapy and Radiation Protection

Integrated Subject Medical Imaging, Radiotherapy & Radiation Protection

Compulsory clinical course (Integrated Subject)

ECTS Course Code:	D-LSUD-3-5-MED-MedImage
ECTS Credits:	6,00
Coordinator:	Professors of Departments of Radiology
Study Year:	3. Study Year (1. clin. Sem.) 4. Study Year (3. clin. Sem.) 5. Study Year (5. clin. Sem.)
Qualification:	First Part of Medical State Exam
Number of lessons:	84 Ustd.
Assessment:	marked written examination at the end of part 3
Content	part 1: Basics and introduction to clinical applications(2 CP) part 2: Lectures in clinical radiology (3 CP) part 3: Seminars in radiology with repetition of the basics and more detailed clinical radiology (2 CP)
Remarks:	offered in winter terms.

Biochemnistry and Molecular Biology

Lecture Biochemnistry and Molekularbiologie

Preclinical Course

ECTS Course Code:	D-LSUD-1-MED-Bioch01a
ECTS Credits:	2,00
Coordinator:	Univ.-Prof. Dr. rer.nat. Mathias Montenarh
Study Year:	1. Study Year (2. vorklin. Semester)
Qualification:	none
Number of lessons:	36 Ustd.
Assessment:	none
Content	Cell Biology, functional Biochemnistry, katabolic mechanism and energy gain, the creation of energy storage, molecular biology, signal transduction, hormones, biochemnistry of special organs and tissues.
Remarks	offered in summer term.

Practical Biochemnistry and Molecular Biology

Compulsory Preclinical Course

ECTS Course Code:	D-LSUD-1-MED-Bioch01
ECTS Credits:	16,00
Coordinator:	Univ.-Prof. Dr. rer.nat. Mathias Montenarh
Study Year:	1. Study Year (2. vorklin. Semester)
Qualification:	Attendance of the lectures
Number of lessons:	84 Ustd.
Assessment:	written examination
Content:	Experiments in gastric juice titration: titration using measurement of potentials of a mixture composed of a weak acid and a strong acid; determination of the standard plasma bicarbonate concentration; determination of the haemoglobin, determination of protein using the Biuret method; electrophoresis to separate serum and plasma proteins; the dependence of the speed of reactions on the enzyme and substrate concentrations as well as the pH; the Michaelis-Menten constant of an alkaline phosphatase for p-nitrophenylphosphate and inhibition of the enzyme; the oral glucose tolerance test; determination of ethanol; the breaking down of tributyrin using pancreatic lipase: the way in which gallbladder acids emulgamate; the determination of serum cholesterol; the determination of muscle and hepatic glycogen levels; electron transport and oxidative phosphorylation hepatic mitochondria; the isolation of plasmid DNA in bacteria; the characterisation of isolated plasmid DNA using restriction splitting and gel electrophoresis division of the remaining DNA fragments; inhibition of xanthine oxidase using allopurinol; Immunodiffusion;

revealing antigens using ELISA; Transamination and oxidative Deamination; the determination of urea levels in urine and serum; the control of gene expression by steroid hormones, the determination of protein, the determination of β -Galactose concentration; revealing evidence of the p53-coded sequence using the polymerase chain reaction.

Remarks: This course is offered in the summer semesters

Seminar Biochemistry and Molecular Biology

Compulsory Preclinical Course

ECTS Course Code: D-LSUD-2-MED-Bioch02

ECTS Credits: 5,00

Coordinator: Professors of the Institute of Biochemistry and Molecular Biology

Study Year: 2. Study Year (3. vorklin. Semester)

Qualification: Students must prepare the subjects presented for the seminars

Number of lessons: 28 Ustd.

Assessment: Presentation (45 Minuten)

Content: Biological buffer systems; regulation of the acid-base balance; analysis of proteins; proteins in blood and plasma; the different groups of enzymes with examples; the regulation of enzymes; carbohydrates; uptake, transport and utilisation; Lipids, uptake, transport and utilisation; energy storage; respiratory chain and oxidative phosphorylation; nucleotide metabolism, methods in gene techniques, the systems of protein expression; humoral and cellular immune response; methods of immunological evidence; amino acid metabolism: the urea cycle; the basics of signal transduction; Hormonal feedback mechanisms; Oncogenes, growth inhibitors; organ metabolism using the liver as an example.

Remarks: This course is offered in the summer semester. Each participant must give at least one presentation of at least 45 minutes duration. Each participant must have prepared the seminar theme beforehand. If the presentation is not held to be good enough, it is considered not to have been presented and thus as missed seminar.

Seminar Clinical Biochemical Seminar

Compulsory Preclinical Course

ECTS Course Code: D-LSUD-2-MED-Bioch03

ECTS Credits: 2,00

Coordinator: Univ.-Prof. Dr. rer.nat. Mathias Montenarh

Study Year: 2. Study Year (3rd preclin. Semester)

Qualification: Lecture and Practical Biochemistry

Number of lessons: 28 Ustd.

Assessment: marked written examination

Content: The regulation of water and mineral balance; Proteins and enzymes in diagnosis and in the clinic; Nucleotides, Nucleic acids, Viruses in diagnosis and treatment; carbohydrates; lipids; disturbance of amino acid and urea metabolism; hormones; cancer; the immune system; regulation of metabolism.

Remarks The seminar is offered in the winter semester.

Subject of Choice Current Themes in Biochemical and Molecular Biological Research

Pre-clinical Subject of Choice (one of a number of possible subjects of choice)

ECTS Course Code: D-LSUD-1-2-MED-W -Bioch01
ECTS Credits: 1,00

Coordinator: Univ.-Prof. Dr. rer.nat. Richard Zimmermann

Study Year: 2. Study Year (4. preclin. Semester)

Qualification: Lecture Biochemnistry, Practical and Seminar

Number of lessons: 28 Ustd.

Assessment: marked oral or written examination.

Content: Chosen themes relating to current research in Biochemistry and Molecular Biology.

Remarks This course is offered in summer and winter semesters.

Subject of Choice Polymer Synthesis

Pre-clinical Subject of Choice (one of a number of possible subjects of choice)

ECTS Course Code: D-LSUD-1-2-MED-W -Bioch02
ECTS Credits: 1,00

Coordinator: Professors of Institute of Biochemnistry and Molecular Biology

Study Year: 2. Study Year (4. preclin. Semester)

Qualification: Lecture, Practical, Seminar Biochemnistry

Number of lessons: 28 Ustd.

Assessment: marked oral or written examination.

Content: Methods of Polymer Synthesis

Remarks: The course is offered in summer and winter semesters.

Medical Biology

Lecture Propedeutics of Medical Biology

Pre-clinical course

ECTS Course Code:	D-LSUD-1-MED-Biol01a
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. Peter Lipp
Study Year:	1. Study Year (1. preclin. Semester)
Qualification:	none
Number of lessons:	14 Ustd.
Assessment:	none
Content:	The principles of Biology, the basics of morphology, physiology and evolution of the organism. Introduction to the structure and function of the cell.
Remarks:	The lectures are offered in the winter semesters.

Lecture Medical Biology

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-2-MED-Biol01
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. Peter Lipp
Study Year:	2. Study Year (3. preclin. Semester)
Qualification:	none
Number of lessons:	14 Ustd.
Assessment:	none
Content:	General cell biology, cell division and cell death. Cell structure and building blocks, cell cycle and mitosis, meiosis, cell death, cell communication and signal transduction. Genetics: the structure and function of eucaryotic genes, human chromosomes, gonosomes, determination and differentiation of gender, mutation, cloning and detection of genes and gene mutations. The basics of microbiology and ecology; the basic morphological forms of bacteria and the bacterial cell. Multiplication of bacteria, the genetics of bacteria, fungi, prions. Chosen ecological themes with reference to microbiology.
Remarks:	The course is offered in the winter semester parallel to the practical course of Biology.

Practical Practical of Medical Biology

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-2-MED-Biol01
ECTS Credits:	8,00
Coordinator:	Univ.-Prof. Dr. Peter Lipp
Study Year:	2. Study Year (3. preclin. Semester)
Qualification:	none
Number of lessons:	42 Ustd.
Assessment:	marked written examination
Content:	Practical exercises in the laboratory related to: General cell biology, cell division and cell death; Genetics; organisation and function of eucaryotic genes, human chromosomes, gender determination and differentiation, mutation, cloning and determination of genes and gene mutations, the basics of microbiology and ecology.
Remarks:	The practical is offered in the winter semester.

Seminar Clinical Biological Seminar

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-2-MED-Biol04
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. Peter Lipp
Study Year:	2. Study Year (3. vorklin. Semester)
Qualification:	none
Number of lessons:	14 Ustd.
Assessment:	written examination
Content:	Clinically relevant chosen themes from the realm of Medical Biology.
Remarks:	The seminar is offered in the winter semester.

Block Practicals

Block Practicals Internal Medicine

Compulsory clinical course

ECTS Course Code:	D-LSUD-4-MED-IntMed Block
ECTS Credits:	8,00
Coordinator:	Professors from the Department of Internal Medicine
Study Year:	4. Study Year (4. clin. Semester)
Qualification:	Lectures/ Practicals/ Seminar Internal Medicine
Number of lessons:	80 Ustd.
Assessment:	marked oral/ written/ practical examination
Content:	Small group bedside teaching, presentation of clinical cases, ward work and accompanying lectures.
Remarks:	The course is offered in summer and winter semesters.

Block Practical Surgery

Clinical compulsory course

ECTS Course Code:	D-LSUD-4-MED-Surg Block
ECTS Credits:	8,00
Coordinator:	Professoren from the Department of Surgery
Study Year:	4. Study Year (4. clin. Semester)
Qualification:	Lectures/ Practical/ Seminar Surgery
Number of lessons:	80 Ustd.
Assessment:	marked oral/ written/ practical examination
Content:	Small group bedside teaching, presentation of clinical cases, ward work and accompanying lectures.
Remarks:	The course is offered in summer and winter semesters.

Block Practical Paediatrics

Compulsory clinical course

ECTS Course Code:	D-LSUD-4-MED-Paed-Block
ECTS Credits:	3,50
Coordinator:	Professors of the Department of Paediatrics
Study Year:	4. Study Year (4. clin. Semester)
Qualification:	Lectures/ Practical/ Seminar Paediatrics
Number of lessons:	40 Ustd.
Assessment:	marked oral/ written/ practical examination
Content:	Small group bedside teaching, presentation of clinical cases, ward work and accompanying lectures.
Remarks:	The course is offered in summer and winter semesters.

Block Practical Obstetrics and Gynaecology

Compulsory clinical course

ECTS Course Code	D-LSUD-4-MED-Gyn-Block
ECTS Credits:	3,50
Coordinator:	Professors of the Department of Gynaecology
Study Year:	4. Study Year (4. clin. Semester)
Qualification:	marked oral/ written/ practical examination
Number of lessons:	40 Ustd.
Assessment:	marked oral/ written/ practical examination
Content:	Small group bedside teaching, presentation of clinical cases, ward work and accompanying lectures.
Remarks:	The course is offered in summer and winter semesters.

Medical Chemnistry

Lectures Introduction to General and Inorganic Chemistry

Pre-clinical Course

ECTS Course Code:	D-LSUD-1-MED-Chem01a
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. K. Hegetschweiler
Study Year:	1. Study Year (1. preclin. Semester)
Qualification:	none
Number of lessons:	24 Ustd.
Assessment:	none
Content:	The macroscopic appearance of the subject matter. The structure and properties of the subject matter: Atoms, Isotopes, The Periodic table, chemical compounds, transforming of materials, chemical equations, homogenic and heterogenic equilibrium reactions, kinetics, acid-base reactions, redox potentials and redox reactions, the creation and properties of salts, metal complexes and ligand exchange reactions.
Remarks:	The lectures are offered during the winter semester.

Lecture Introduction to Organic Chemistry

Pre-clinical course

ECTS Course Code:	D-LSUD-1-MED-Chem02a
ECTS Credits:	2
Coordinator:	Univ.-Prof. Dr. G. Wenz
Study Year:	1. Study Year (1. preclin. Semester)
Qualification:	none
Number of lessons:	32 Ustd.
Assessment:	none
Content:	Acyclic and cyclic carbon hydroxides, simple functional groups (alcohol, ether, amines, sulphur compounds), aromates und heteroaromates, carbonyl compounds (aldehydes, ketones, carbonic acids and derivatives), Stereochemistry. Addition-, reduction and substitution reactions, polymerisation, carbohydrates: monosaccharides, disaccharides. Oligo- and polysaccharides. Aminoacids, peptides, proteins, steroids, derivatives of anorganic acids, DNA, purification and chromatography, spectroscopy and reaction kinetics.
Remarks:	The lectures are offered in the winter semester.

Practical Practical of Chemistry for Medical Students

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-1-MED-Chem01
ECTS Credits:	8,00
Coordinator:	Univ.-Prof. Dr. G. Wenz, Priv.-Doz. Dr. A. Speicher
Study Year:	1. Study Year (1. preclin. Semester)
Qualification:	none
Number of lessons:	42 Ustd.
Assessment:	written examinations
Content:	Practical exercises involving: Macroscopic appearance of the subject matter, structure and properties of the subject matter: Atoms, Isotopes, The Periodic Table, chemical compounds, transformation of materials, chemical equations, homogenic and heterogenic equilibrium reactions, kinetics, acid-base reactions, redox potentials and redox reactions, creation and properties of salts, metal complexes and ligand exchange reactions. Acyclic and cyclic carbon hydroxides, simple functional groups (alcohols, ether, amines, sulphur compounds), aromates and heteroaromates, carbonyl compounds (aldehydes, ketones, carbonic acids and derivatives), stereochemistry. Addition, reduction and substitution reactions. Polymerisation, carbohydrates: monosaccharides, disaccharides, oligo- and polysaccharides. Aminoacids, peptides, proteins, steroids; derivatives of anorganic acids, DNA, purification and chromatography, spectroscopy and reaction kinetics.
Remarks:	The course is offered during the winter semester

Seminar Clinical Chemistry Seminar

Pre-clinical compulsory course (Medicine)

ECTS Course Code:	D-LSUD-1-MED-Chem02
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. G. Wenz, Priv.-Doz. Dr. A. Speicher
Study Year:	1. Study Year (1. preclin. Semester)
Qualification:	none
Number of lessons:	14 Ustd.
Assessment:	Teilnahmebestätigung mit Anwesenheitskontrolle
Content:	Clinically relevant aspects of Chemistry: reaction kinetics, acid-base reactions, puffer systems, redox potentials and redox reactions, complex compounds, alteration of functional groups, clinically relevant classes of substances, metabolism, complex organic structures (polysaccharides, proteins, DNA), analysis, spectroscopy and reaction kinetics, diagnostic procedures.
Remarks:	The seminars are offered during the winter semester.

Surgery

Lecture Surgery

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Surg01
ECTS Credits:	5,00
Coordinator:	Professors from the Departments of Surgery
Study Year:	3. Study Year (2. clin. Semester)
Qualification:	none
Number of lessons:	70 Ustd.
Assessment:	marked, written examinations
Content:	Introduction to surgical diagnosis, practice and therapy.
Remarks:	The course is offered in summer and winter semesters.

Practical Surgery

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Surg02
ECTS Credits:	3,00
Coordinator:	Professors from the Departments of Surgery
Study Year:	3. Study Year (2. clin. Semester)
Qualification:	Lecture Surgery
Number of lessons:	50 Ustd.
Assessment:	marked, written examination
Content:	Diagnosis and therapy in Surgery. Small group bedside teaching.
Remarks:	The practical is offered both in summer and winter semesters.

Dermatology and Venereal diseases

Lecture Dermatology and Veneral Diseases

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Derm01
ECTS Credits:	3,00
Coordinator:	Univ.-Prof. Dr. med. W. Tilgen
Study Year:	5. Study Year (5. clin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.
Assessment:	adequate attendance, with a maximum of two missed sessions marked, written examination
Content:	The major clinical cases. Examination and diagnostic methods and the treatment possibilities in Dermatology, Venereal disease and Allergic disease.
Remarks:	The lectures are offered in summer and winter semesters.

Practical Dermatology and Veneral Diseases

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Derm02
ECTS Credits:	3,00
Coordinator:	Univ.-Prof. Dr. med. W. Tilgen
Study Year:	5. Study Year (5. klin. Semester)
Qualification:	adequate attendance of lecture and successful examination.
Number of lessons:	21 Ustd.
Assessment:	Regular attendance, no missed session and discussion of the demonstrated cases.
Content:	Demonstration of dermatological cases and bedside teaching.
Remarks:	The practical is offered in summer and winter semesters.

Introduction into Clinical Medicine

Practical Introduction to Clinical Medicine

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-2-MED-IntroClinMed
ECTS Credits	1,00
Coordinator:	Lehrpersonen der Fachrichtungen Anatomie, Biochemie und Molekularbiologie und Physiologie sowie klinischer Fachrichtungen
Study Year:	2. Study Year (3. und 4. vorklin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.
Assessment:	Adequate attendance
Content:	Clinically relevant themes which bear direct relation to the subjects, Anatomy, Biochemistry and Physiology. Patient presentation.
Remarks:	The Practical is composed of parts from Anatomy, Biochemistry and Physiology.

Epidemiology, Medical Biometrics and Medical Information Studies

Practical Exercises Epidemiology, Medical Biometrics and Medical Information Studies

Pre-clinical compulsory course (Integrated course)

ECTS Course Code:	D-LSUD-3-MED-Biometry01 D-LSUD-3-MED-Biometry02
ECTS Credits:	2,00
Coordinator:	N.N.
Study Year:	3. Study Year (1. and 2. cin. semester)
Qualification:	First Part of Medical State Exam
Number of lessons:	56 UStd.
Assessment:	Schriftlicher Abschlusstest nach jedem Teilgebiet. Benotung.
Content:	Part 1: Medical Biometrics (statistical methods for medical diagnosis, the assessment of different therapies, evidence based medicine Part 2: Epidemiology (quantification of risk and prognosis) and medical information studies (medical documentation, biological information studies and spezial applications of medical information studies)
Remarks:	The course is offered in summer and winter semesters. Part 1 is planned to take place in the 3rd year of study second clinical semester) and part 2 in the 4th year of study (fourth clinical semester).

First Aid

Course First Aid

Pre-clinical optional course

ECTS Course Code:	D-LSUD-1-MED-FirstAid
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. R. Larsen
Study Year:	1. Study Year
Qualification:	none
Number of lessons:	16 Ustd.
Assessment:	Adequate Attendance
Content:	First Aid with practical exercises
Remarks:	The student needs to prove they have completed this course in order to be allowed to take part in the First Part of Medical State Examination, but the course is not a part of the university curriculum. It can be completed at nonuniversity institutions, such as the 'Rotes Kreuz' (Red Cross).

The Diagnosis of Genetically Acquired Disease

Subject of choice The Diagnosis of Genetically Acquired Disease

Pre-clinical course (One of a number of possibilities for the

ECTS Course Code:	D-LSUD-2-MED-W -HumGen01
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. Meese, Prof. Dr. Welter
Study Year:	1. Study Year (2. preclin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.
Assessment:	marked written examination
Content:	The different methods of diagnosing genetic abnormalities with specific clinical cases.
Remarks:	The course is offered in the summer semester.

The History, Theory and Ethics of Medicine

Lecture The History, Theory and Ethics of Medicine

Clinical course (Compulsory/Integrated course)

ECTS Course Code:	D-LSUD-3-MED-History
ECTS Credits:	1,00
Coordinator:	Prof. Dr. Wolfram Henn
Study Year:	3. Study Year (2. clin. Semester)
Qualification:	First Part of Medical State Exam
Number of lessons:	14 Ustd.
Assessment:	Adequate attendance; multiple choice examination
Content:	The content corresponds to the core curriculum for Medical Ethics and Law: Patient autonomy, explanation of procedures and disease and the acquiring of patient consent; the relationships between patients, medical staff and relatives; medical research; Medicine and reproduction; Medicine and Genetics; Paediatrics; mental illness, physical illness and mental retardation; organ transplants; Euthanasia and accompanying the dying; the health system; responsibilities and expectations of Doctors and Students.
Remarks:	This course is offered in summer and winter semesters. It is recommended that the course should be taken straight after the First Part of Medical State Examination. The lecture content is provided per internet. One missed lecture is allowed. A second absence has to have a good reason, which must be provided to the lecturer. For those that fail the MC examination, there is the possibility of repeating the examination once. Lastly, an oral examination in the presence of two lecturers is possible.

Obstetrics and Gynaecology

Lecture Obstetrics and Gynaecology

Compulsory clinical course

ECTS Course Code:	D-LSUD-4-MED-Gyn01
ECTS Credits:	2,5
Coordinator:	Univ.-Prof. Dr. med. Dr. h.c. mult. W. Schmidt
Study Year:	4. Study Year (3. clin. Semester)
Qualification:	First Part of Medical State Exam
Number of lessons:	28 Ustd.
Assessment:	marked written examination
Content:	content Obstetrics and Gynaecology (lecture course accompanies practical course)
Remarks:	The lectures are offered in summer and winter semesters.

Health Economics, the Health System and Public Health, Prevention, Rehabilitation, Physical Methods in Medicine, natural healing methods

Course Health Economics, the Health System and Public Health, Prevention, Rehabilitation, Physical Methods in Medicine, natural healing methods

Compulsory clinical course (Integrated course)

ECTS Course Code:	D-LSUD-4-MED-PubHealth D-LSUD-4-MED-SocMed D-LSUD-4-MED-Prevent D-LSUD-4-MED-PubHealthRehaPhys
ECTS Credits:	7,00
Coordinator:	Univ.-Prof. Dr. med. A. Buchter
Study Year:	5. Study Year (5. clin. Semester)
Qualification:	Clinical knowledge from the fourth clinical semester
Number of lessons:	36 Ustd.
Assessment:	marked written examinations
Content:	The basics of social medicine, life expectancy, risk factors, spectrum of disease, incapacity to work, early retirement, cancer, causes of death, the health system, the health professions, public health care, tasks, institutions, health economics, rational diagnosis and therapy in hospitals and practices.
Remarks:	The course is offered in winter and summer semesters. Social medicine is offered in combination with the integrated courses of Health Economics, the Health System and Public Health.

Ear, Nose and Throat

Lecture Ear, Nose and Throat

Compulsory clinical course

ECTS Course Code:	D-LSUD-4-MED-ENT01
ECTS Credits:	2,00
Coordinator:	N.N.
Study Year:	4. Study Year (3. clin. Semester)
Qualification:	none
Number of lessons:	28 Ustd.
Assessment:	marked written examination.
Content:	Introduction to diagnosis and therapy in E.N.T.
Remarks:	The course is offered in summer and winter semesters.

Practical/ Seminar Ear, Nose and Throat

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-ENT02
ECTS Credits:	1,00
Coordinator:	N.N.
Study Year:	3. Study Year (2. klin. Semester)
Qualification:	Lecture E.N.T.
Number of lessons:	14 Ustd.
Assessment:	Oral/written/practical examination with marks
Content:	Diagnosis and therapy of E.N.T. disease., small group bedside teaching and case presentation.
Remarks:	The practical is offered in summer and winter semesters.

Human Genetics

Human Genetics

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-HumGen
ECTS Credits:	2,00
Coordinator:	Prof. Dr. Wolfram Henn
Study Year:	3. Study Year (1. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	28 teaching hours
Assessment:	Adequate attendance; multiple choice examination
Content:	Autosomal chromosome abnormalities; sex chromosome abnormalities; structural abnormalities and microdeletions; genome imprinting; FISH-Techniques; chromosomal causes of abortions; prenatal diagnosis; infertility / IVF / multiple births / PID; the mechanisms of abnormal development of the embryo; syndromes; the diagnosis of monogenic hereditary disease; autosomal and sex chromosome related hereditary disease; mitochondrial disease; multifactorial disease; predictive diagnosis; inherited tumour risk; somatic tumour genetics; genetics of psychiatric disease and mental handicap; teratogens; transsexuality; the genetics of populations
Remarks:	The course is offered in summer and winter semesters.

Hygiene, Microbiology, Virology

Practical Hygiene, Microbiology, Virology

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Microbiol
ECTS Credits:	5,00
Coordinator:	Professors of the Department of Microbiology and Virology
Study Year:	3. Study Year (1. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	56 teaching hours
Assessment:	Written and oral examination with marks
Content:	Theory, diagnosis and practice in the field of Microbiology, Virology and Hygiene.
Remarks:	The course is offered in summer and winter semesters.

Infection and Immunology (Integrated subject)

Compulsory clinical course (Integrated subject)

ECTS Course Code:	D-LSUD-5-MED-InfectImmun
ECTS Credits:	3,00
Coordinator:	Univ.-Prof. Dr. med. M. Herrmann; Prof. Dr. med. B. Gärtner
Study Year:	5. Study Year (5. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Infection and Immunology
Remarks:	The course is offered in summer and winter semesters.

Internal Medicine

Lecture Internal Medicine – Pathophysiology

Compulsory clinical course

ECTS Course Code	D-LSUD-3-MED-IntMed01 (Semester 1) D-LSUD-4-MED-IntMed04 (Semester 2)
ECTS Credits:	2,00 each
Coordinator:	Professors/Lecturers of the Department of Internal Medicine
Study Year:	3. Study Year (from 1. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours each
Assessment:	Adequate attendance
Content:	Pathophysiological essentials of internal diseases. Introduction to diagnosis and therapy in internal medicine.
Remarks:	The lecture is offered in summer and winter semesters.

Practical Internal Medicine (Clinical Examination Course)

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-IntMed02
ECTS Credits:	7,00
Coordinator:	Professors/Lecturers of the Department of Internal Medicine
Study Year:	3. Study Year (1. clinical semester)
Qualification:	Lecture course in internal medicine
Number of lessons:	84 teaching hours
Assessment:	Written or oral/practical final examination with marks
Content:	Examination methods and techniques in Internal medicine. Diagnosis and therapy in internal medicine, small group bedside teaching.
Remarks:	The practical is offered in summer and winter semesters.

Seminar Internal Medicine – Differential Diagnosis

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-IntMed03
ECTS Credits:	3,00
Coordinator:	Professors/Lecturers of the Department of Internal Medicine
Study Year:	3. Study Year (2. clinical semester)

Qualification:	Lecture course in internal medicine
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Selected themes in internal medicine with case presentation and discussion: Haematology/ Oncologie, Rheumatology, Gastro-enterology, Endocrinology, Diabetology, Cardiology, Angiology, Intensive Care, Nephrology, Pneumology
Remarks:	The seminar is offered in summer and winter semesters.

Lecture The Medicine of Aging and of the Elderly

Compulsory clinical course (Integrated subject)

ECTS Course Code:	D-LSUD-3-MED-Age
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. M. Böhm
Study Year:	3. Study Year (1.-6. clinical semester)
Qualification:	none
Number of lessons:	14 teaching hours
Assessment:	Final examination with marks.
Content:	Medicine of Aging and the Elderly.
Remarks:	The individual courses of the total course are integrated in lecture courses of the individual subjects. Those individual courses are offered in summer and winter semesters.

Paediatrics

Course Paediatrics

Compulsory clinical course

ECTS Course Code:	D-LSUD-4-MED-Paed01
ECTS Credits:	2,00
Coordinator:	Professors/Lecturers of the Paediatrics Department
Study Year:	4. Study Year (3. clinical semester)
Qualification:	none
Number of lessons:	14 teaching hours
Assessment:	Final examination with marks.
Content:	Introduction to diagnosis and therapy in Paediatrics.
Remarks:	The course is offered in summer and winter semesters.

Lecture Paediatrics

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Paed02
ECTS Credits:	4,00
Coordinator:	Professors/Lecturers of the Paediatrics Department
Study Year:	3. Study Year (2. clinical semester)
Qualification:	none
Number of lessons:	42 teaching hours
Assessment:	Final examination with marks.
Content:	Introduction to diagnosis and therapy in Paediatrics.
Remarks:	The lecture is offered in summer and winter semesters

Clinical Chemistry and Laboratory Diagnosis

Course Clinical Chemistry and Laboratory Diagnosis

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-4-MED-ClinChem
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. W. Herrmann
Study Year:	3. Study Year (1. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Clinical chemistry and Laboratory Diagnosis. Theory and practice.
Remarks:	The course is offered in summer and winter semesters.

Clinical Pharmacology and Pharmacotherapy

Lecture Clinical Pharmacology and Pharmacotherapy

Compulsory clinical course (Integrated subject)

ECTS Course Code:	D-LSUD-5-MED-ClinPharm
ECTS Credits:	3,00
Coordinator:	Univ.-Prof. Dr. med. V. Flockerzi
Study Year:	5. Study Year (5. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	28 teaching hours
Assessment:	Homework, certificates, marks
Content:	Chosen topics in clinical pharmacology and pharmacotherapy.
Remarks:	The course is offered in summer and winter semesters.

Medical Terminology

Practical of Medical Terminology

Compulsory pre-clinical course

ECTS Course Code:	D-LSUD-1-MED-Termi
ECTS Credits:	1,00
Coordinator:	Dr. med. Kurt W. Becker
Study Year:	1. Study Year (1. vorclinical semester)
Qualification:	none
Number of lessons:	14 teaching hours
Assessment:	Adequate attendance
Content:	The historical development and meaning of medical terminology; peculiarities of medical terminology; basics of Latin grammar; the principles of construction of anatomical nomenclature and clinical vocabulary; foreign language elements of medical terminology; examples and exercises relevant to medical practice.
Remarks:	The course is only offered in the winter semester. An accompanying script is available per Internet.

Medical Psychology and Medical Sociology

Lecture/ Course Medical Psychology and Medical Sociology

Pre-clinical course

ECTS Course Code:	D-LSUD-1-MED-Psycho01
ECTS Credits:	7,00
Coordinator:	R. D'Amelio, Dr. phil. V. Papathanassiou
Study Year:	1. Study Year (1. pre-clinical semester)
Qualification:	none
Number of lessons	42
Assessment:	Final written examination
Content:	Relationships between health and illness. Models of health and illness. Basic methods in psychology and sociology. Theoretical basics. Doctor-patient relationship. Investigation and discussion. Opinion building and decision making. Intervention. Special medical situations. The patient and the health system. Prevention. Methods of improving and maintaining health.
Remarks:	The first part of the lecture course is offered in the winter semester and the second part in the summer semester.

Seminar Medical Psychology and Medical Sociology

Compulsory pre-clinical course

ECTS Course Code:	D-LSUD-1-MED-Psycho02
ECTS Credits:	2,00
Coordinator:	R. D'Amelio, Dr. phil. V. Papathanassiou
Study Year:	1. Study Year (2. pre-clin. sem.)
Qualification:	Lecture course in Medical Psychology and Medical Sociology
Number of lessons:	14 teaching hours
Assessment:	Adequate attendance and a paper
Content:	The way in which the subject matter in the lecture course can be implemented.
Remarks:	The seminar is offered in the summer semester.

Neurology

Lecture Neurology

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Neurol01
ECTS Credits:	6,00
Coordinator:	Univ.-Prof. Dr. K. Fassbender and lecturers
Study Year:	5. Study Year (5. clinical semester)
Qualification:	none
Number of lessons:	42 teaching hours
Assessment:	Final examination with marks
Content:	Introduction to diagnosis and therapy of neurological disease.
Remarks:	The lecture is offered in winter and summer semesters.

Practical Neurology

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Neurol02
ECTS Credits:	3,00
Coordinator:	Univ.-Prof. Dr. K. Fassbender and lecturers
Study Year:	5. Study Year (6. clinical semester)
Qualification:	Lecture course in Neurology.

Number of lessons:	28 teaching hours
Assessment:	Written/Oral/Practical final examination with marks
Content:	Neurological disease, small group and bedside teaching.
Remarks:	The practical is offered in winter and summer semesters.

Emergency Medicine

Lecture Emergency Medicine

Compulsory clinical course / Integrated subject

ECTS Course Code:	D-LSUD-4-MED-Emergency01
ECTS Credits:	2,00
Coordinator:	Univ.-Prof. Dr. med. R. Larsen and lecturers
Study Year:	4. Study Year (3. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	28 teaching hours
Assessment:	Entrance examination and final examination with marks
Content:	Introduction to Emergency Medicine; Basic and advanced cardiac life support.
Remarks:	---

Practical Emergency Medicine

Compulsory clinical course / Integrated subject

ECTS Course Code:	D-LSUD-4-MED-Emergency02
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. R. Larsen and lecturers
Study Year:	4. Study Year (1. clinical semester)
Qualification:	First Part of Medical State Examination and pass in the entry examination
Number of lessons:	7 teaching hours
Assessment:	Final examination with marks
Content:	Practical exercises in the setting of venous access, basic and advanced cardiac life support, intubation and airway protection.
Remarks:	---

Orthopaedics

Lecture Orthopaedics

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Ortho01
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. med. D. Kohn
Study Year:	3. Study Year (2. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Oral examination, adequate attendance, marking.
Content:	Disease of the locomotor system; causes, investigations, diagnosis and therapy.
Remarks:	The lecture is offered in winter and summer semesters.

Practical Orthopaedics

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Ortho02
ECTS Credits:	2,00
Coordinator:	Univ.-Prof. Dr. med. D. Kohn
Study Year:	4. Study Year (3. clinical semester)
Qualification:	Lecture course in Orthopaedics
Number of lessons:	28 teaching hours
Assessment:	Oral examination with marks
Content:	Taking a history, examination of the patient and methods of examining the locomotor system.
Remarks:	The practical is offered in winter and summer semesters

Pathology

Practical Pathology (formerly general/special Pathology incl. Neuropathology)

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Path101 D-LSUD-3-MED-Path102 D-LSUD-4-MED-Path203 D-LSUD-4-MED-Path204 D-LSUD-4-MED-Patho2Neur
ECTS Credits:	7,00 each
Coordinator:	Univ.-Proffs. Dres. med. M. Bohle/ W. Feiden
Study Year:	3. Study Year (Path101/102, 1. clinical semester) 4. Study Year (Path203/204, 3. clinical semester)
Qualification:	for Path203/204: success in course Path101/102
Number of lessons	D-LSUD-3-MED-Path101: 70 UStd. D-LSUD-3-MED-Path102: 56 UStd. D-LSUD-4-MED-Path203: 56 UStd. D-LSUD-4-MED-Path204: 28 teaching hours D-LSUD-4-MED-Patho2Neur: 14 teaching hours
Assessment:	Examination in both courses with marks
Content:	Basics of pathology – ultrastructural pathology – adaptation mechanisms – degeneration – disturbances of circulation – inflammation – immunopathology – pathology of growth and development – regeneration and repair – pathology of tumours – metabolic illness – disease of the cardiovascular system, blood and lymphatic system, respiratory system and urinary organs, the digestive tract , liver and pancreas, the skin, male and female sexual organs and the locomotor system.
Remarks:	The courses Pathology I and II are offered in winter and summer semesters.

Integrated subject Clinical-pathology Conference

Compulsory clinical course (Integrated subject)

ECTS Course Code	D-LSUD-4-MED-PathConf
ECTS Credits:	1,00
Coordinator:	Univ.-Proffs. Dres. med. M. Bohle/ W. Feiden
Study Year:	4. Study Year (3. clinical semester)
Qualification:	Success in the pathology 1 course.
Number of lessons:	14 teaching hours
Assessment:	Success in the Pathology II examination.
Content:	Demonstration of pathological changes in organs and descriptions of disease processes.
Remarks:	The course is offered in winter and summer semesters.

Pharmacology und Toxicology

Course Pharmacology and Toxicology (Lecture and Course)

Compulsory clinical course

ECTS Course Code:	D-LSUD-3-MED-Pharm01 (Lecture) D-LSUD-3-MED-Pharm01 (Course)
ECTS Credits:	Pharm01: 9,00 Pharm02: 2,00
Coordinator:	Univ.-Prof. Dr. med. V. Flockerzi
Study Year:	3. Study Year (1. and 2. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	112 teaching hours (Lecture) 56 teaching hours (Course)
Assessment:	Final examination with marks
Content:	Basics of Pharmacology and Toxicology and clinical applications.
Remarks:	The course is running over two semesters.

Medical Physics

Lecture (optional) / Practical Medical Physics

Pre-clinical optional Lecture

ECTS Course Code:	D-LSUD-1-MED-Phys01
ECTS Credits:	8,00
Coordinator:	Univ.-Prof. Dr. M. Hoth
Study Year:	1. Study Year (1. Pre-clinical semester)
Qualification:	none
Number of lessons:	42 teaching hours+ Lecture 36 teaching hours
Assessment:	Written examination with marks
Content:	The basic terminology of measurement and quantitative description: Physical masses and units, measurement and uncertainty in measurement, connections between physical masses. Mechanics: movement, impulse, force; forces, rotation, inertia, rotatory impulse, work, energy; performance, amount of mass, referred mass, changes in solid bodies, pressure, forces on border areas, movement of gas and fluids. Structure of materials: structure of atoms and nuclei, solids, fluids. Heat: temperature, heat, heat capacity, state of gas, changes in the state of the aggregate, heat transport, phenomena in transport, substance mixtures. Course content Electricity course: electrical current strength, electrical charge, electrical field strength, electrical potential, electrical voltage, electrical resistance, electrical circuit, electrical capacity, electrical current, electrical voltage at border areas, diffusion voltage, voltage at border areas, magnetic mass,

electromagnetic induction, variable voltage, variable current. Oscillation and waves: oscillation, waves, sound waves, electromagnetic waves. Optics: Light, geometric optics, wave optics, optical instruments. Ionising radiation: radioactivity, X-rays, evidence of ionising rays, effect of radiation.

Practical exercises to: the basics of measurement and quantitative description. Mechanics. Structure of material. Heat. Electricity. Oscillation and waves. Optics. Ionising radiation.

Remarks: The lecture/ practical is offered in winter semester.

Seminar Clinical-biophysical Seminar

Pre-clinical compulsory course

ECTS Course Code: D-LSUD-1-MED-Phys02

ECTS Credits: 1,00

Coordinator: Univ.-Prof. Dr. M. Hoth

Study Year: 1. Study Year (2. Pre-clinical semester)

Qualification: none

Number of lessons: 14 teaching hours

Assessment: Oral/written examination

Content: Basics of atomic and nuclear physics, building of molecules, radioactivity, X-rays, evidence of ionising radiation, effects of radiation as well as photometric assessment of solutions. Clinical examples and uses.

Remarks: The course is offered in the summer semester.

Subject of Choice Radiological Biophysics

Pre-clinical Course (subject of choice)

ECTS Course Code: D-LSUD-1-2-MED-W -Phys01

ECTS Credits: 1,00

Coordinator: N.N.

Study Year: Study Year (4. pre-clinical semester)

Qualification: none

Number of lessons: 28 teaching hours

Assessment: Written examination, marks

Content: The natural science basics of radiation physics and biology, gamma and X-ray radiation, UV light, bremsstrahlung, radioactivity, terms used in dosing, shielding against radiation, radiation burden of humans, radiation protection measurement methods, achieving a certain dose and the radiation dose acceptable for an individual.

Remarks: The course is offered in the summer semester.

Physiology

Practical Physiology with accompanying lecture

Pre-clinical compulsory course

ECTS Course Code:	D-LSUD-2-MED-Physiol01
ECTS Credits:	16,00
Coordinator:	Professors of the Department of Physiology
Study Year:	2. Study Year (4. pre-clinical semester)
Qualification:	none
Number of lessons	42 teaching hours (Practical)
Assessment:	9 written tests and one final examination
Content:	<p>Practical exercises relating to the following themes: nerves, muscle, heart, circulatory system, blood, lungs, kidney, eyes and ears, CNS</p> <p>Lecture (in two semesters): General and cell physiology, cell excitation: substance quantity and concentration, osmosis, transport, the organisation of cells and movement, electrical phenomena relating to cells. Blood and the immune system: blood, erythrocytes, plasma, haemostasis and fibrinolysis, defence systems and the identity of cells (immunology). The heart; electrophysiology, mechanics, maintenance, control of heart activity. The circulation of blood: basics, high pressure system, low pressure system, blood circulation of the organs, fetal and placental circulation. Respiration: the basics of morphology, non-respiratory functions of the lung, the basics of physics, respiratory mechanics, perfusion of the lung, gas exchange in the lung, transport in blood of respiratory gases, the regulation of respiration, respiration under unusual conditions, acid-base balance and puffing. Work and performance physiology: basics, organ participation, how to judge performance and assessment of performance. Diet, digestive tract, liver: Diet, the motor function of the digestive tract, secretion, information about the diet, absorption, the integrated control of digestive tract function. Energy and warmth regulation: energy, warmth and temperature regulation. Water and electrolyte regulation, kidney function: water and electrolyte regulation, kidney. Hormonal regulation: basics, water and electrolyte regulation, energy regulation and growth. Sexual development and the physiology of reproduction: the determination of gender and puberty, female sex hormones, the menstrual cycle, androgens, gametes, cohabitation and fertilisation, pregnancy, the fetus, birth, lactation, age. The principles of the function of the nervous system: resting membrane potentials, communication within cells and between cells, how signals are processed within the nervous system, the principles of the function of the sensory system. Muscles: general muscle physiology, striated muscle. Autonomic nervous system: basics of morphology, development, growth factors, cellular and molecular mechanisms of signal transduction in the autonomic nervous system, the functional organisation of the autonomic nervous system. Motor function: the programming of intentional movement, the cortical motor areas, efferent projection of the motor cortex, spinal cord nerves, the motor function of the brain stem, basal ganglia, cerebellum, integral motor function of the central nervous system, disturbance of motor function. Somatovisceral</p>

sensory function: functional and morphological basics, sense of touch, sense of temperature, 127 joint position and vibration sense, visceral sensory systems, pain receptors. Visual system: dioptric apparatus, the processing of signals in the retina, the central representation of the visual system, the processing of information in the optic tract.

Auditory system: physiological acoustics, the external, middle and internal ear, the central auditory tracts and the cortical auditory areas. The creation of speech and the understanding of speech. Chemical sensation: the basics of chemical sensation, taste, smell, and trigeminal chemical sensation.

Integrated performance of the central nervous system: general physiology and functional anatomy of the cortex, the integrated function of cortex and subcortical regions of the brain.

Remarks: The practical is offered in the summer semester.
The lecture is offered in winter and summer semesters.

Seminar Physiology

Pre-clinical compulsory course

ECTS Course Code: D-LSUD-2-MED-Physiol02

ECTS Credits: 5,00

Coordinator: Professors of the Department of Physiology

Study Year: 2. Study Year (4. pre-clinical semester)

Qualification: none

Number of lessons: 28 teaching hours

Assessment: Adequately well done seminar presentation

Content: Presentations on the following themes: general and cell physiology, cell excitation; blood and the immune system; the circulatory system; respiration; work and performance physiology; diet, the digestive tract, the liver; energy and warmth regulation; water and electrolyte regulation, kidney function; sexual development and the physiology of reproduction; the principles of the function of the central nervous system; muscle; the autonomic nervous system; motor function; somatovisceral sensation; the visual system; the auditory system; chemical sensation; the integrated performance of the central nervous system.

Remarks: The seminar is offered in the summer semester.

Seminar Clinical Physiological and Biophysical Seminar

Pre-clinical compulsory course

ECTS Course Code: D-LSUD-2-MED-Physiol03

ECTS Credits: 2,00

Coordinator: Directors Professors of the Department of Physiology

Study Year: 2. Study Year (4. pre-clinical semester)

Qualification: none

Number of lessons:	28 teaching hours
Assessment:	Adequately well done seminar presentation
Content:	Clinically relevant themes from all areas of Physiology and Biophysics.
Remarks:	The seminar is offered in the summer semester.

Subject of Choice Neuropathophysiology

Pre-clinical subject of choice

ECTS Course Code:	D-LSUD-2-MED-W-Physiol05
ECTS Credits:	1,00
Coordinator:	Professors of the Department of Physiology
Study Year:	2. Study Year (4. pre-clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Pathophysiological themes relating to neurophysiology.
Remarks:	This course is offered alternately with the subject of choice vegetative pathophysiology in the winter semester. The course is marked.

Subject of Choice Vegetative Pathophysiology

Pre-clinical subject of choice

ECTS Course Code:	D-LSUD-2-MED-W-Physiol06
ECTS Credits:	1,00
Coordinator:	Professors of the Department of Physiology
Study Year:	2. Study Year (4. pre-clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Pathophysiological themes relating to vegetative Physiology.
Remarks:	This course is offered alternately with the subject of choice neuropathophysiology in the winter semester. The course is marked.

Subject of Choice Electrocardiography

Pre-clinical subject of choice

ECTS Course Code:	D-LSUD-2-MED-W-Physiol07
ECTS Credits:	1,00
Coordinator:	Univ.-Prof. Dr. M. Hoth
Study Year:	2. Study Year (4. pre-clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Either a marked final examination or a marked seminar presentation.
Content:	Physiology and pathophysiology of the heart. Interpretation using electrocardiographic techniques.
Remarks:	This course is offered either in summer or winter semesters. The course is marked.

Psychiatry und Psychotherapy

Lecture Psychiatry und Psychotherapy

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Psychiatry01
ECTS Credits:	3,00
Coordinator:	N.N.
Study Year:	5. Study Year (6. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Pass in the entry examination, adequate attendance, final oral examination with marks.
Content:	Introduction to the diagnosis and therapy psychiatric disease. Basics of Psychotherapy.
Remarks:	The lecture is offered in winter and summer semesters.

Practical Psychiatry und Psychotherapy

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Psychiatry02
ECTS Credits:	3,00
Coordinator:	N.N.
Study Year:	5. Study Year (6. clinical semester)

Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	see lecture course above
Content:	Small group teaching, case presentation and discussion and bedside teaching.
Remarks:	The practical is offered in winter and summer semesters.

Seminar Psychiatry und Psychotherapy

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Psychiatry03
ECTS Credits:	1,00
Coordinator:	N.N.
Study Year:	5. Study Year (6. clinical semester)
Qualification:	none
Number of lessons:	14 teaching hours
Assessment:	see lecture course above
Content:	Special topics in psychiatry.
Remarks:	The seminar is offered in winter and summer semesters.

Psychosomatic Medicine and Psychotherapy

Lecture Psychosomatic Medicine and Psychotherapy

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-PsySom01
ECTS Credits:	3,00
Coordinator:	Hon.-Prof. Dr. V. Köllner
Study Year:	5. Study Year (6. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Introduction to diagnosis and therapy in psychosomatic medicine.
Remarks:	The lecture is offered in winter and summer semesters.

Practical Psychosomatic Medicine and Psychotherapy

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-PsySom02
ECTS Credits:	3,00
Coordinator:	Hon.-Prof. Dr. V. Köllner
Study Year:	5. Study Year (6. clinical semester)
Qualification:	Lecture course in Psychosomatic medicine and Psychotherapy
Number of lessons:	28 teaching hours
Assessment:	see lecture course above
Content:	Small group teaching, case presentation and discussion.
Remarks:	The practical is offered in winter and summer semesters

Legal/Forensic Medicine

Course Legal/Forensic Medicine

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-LegMed01
ECTS Credits:	3,00
Coordinator:	Univ.-Prof. Dr. med. J. Wilske
Study Year:	5. Study Year (5. clinical semester)
Qualification:	none
Number of lessons:	28 teaching hours
Assessment:	Final examination with marks
Content:	Introduction to Legal and Forensic Medicine.
Remarks:	The course is offered in summer and winter semesters.

Urology

Lecture Urology

Compulsory clinical course

ECTS Course Code:	SUD-5-MED-Uro01
ECTS Credits:	2,00
Coordinator:	Univ.-Prof. Dr. med. M. Stöckle
Study Year:	4. Study Year (3. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	28 teaching hours
Assessment:	---
Content:	Introduction to and basics of urology.
Remarks	The lecture is offered in summer and winter semesters.

(Block-)Practical Urology

Compulsory clinical course

ECTS Course Code:	D-LSUD-5-MED-Uro02
ECTS Credits:	2,00
Coordinator:	Univ.-Prof. Dr. med. M. Stöckle; Prof. Dr. med. U. Zwergel
Study Year:	4. Study Year (Bloc, 4. clinical semester)
Qualification:	First Part of Medical State Examination
Number of lessons:	20 teaching hours
Assessment:	Oral examination with marks
Content:	Basics of urological disease (Prostate, Bladder, Kidney, Testes carcinomas; paediatric urology, benign prostatic hyperplasia, urolithiasis and kidney transplantation.
Remarks:	The practical is offered in summer and winter semesters.

Curriculum 1.-2. Study Year

Overview 1.-2. Study Year

<div>1. Semester</div> <div>Terminology - Practical and Anatomy – Propaedeutic</div> <div>Chemistry<ul style="list-style-type: none">- Lecture (with biochemical Aspects)- Practical</div> <div>Biology<ul style="list-style-type: none">- Lecture (with anatomical Aspects)- Practical- Clinical-Biological Seminar</div> <div>Physics<ul style="list-style-type: none">- Lecture and Tutors (with physiological Aspects)- Practical</div> <div>First Aid</div> <div>Occupational field survey</div> <div>„Limits of Medicine“</div>	<div>2. Semester</div> <div>Anatomy: Microscopy = Histology<ul style="list-style-type: none">- Lecture (course attendant)- Course</div> <div>Biochemistry / Molecularbiology<ul style="list-style-type: none">- Lecture (here general aspects)- Seminar- Practical</div> <div>Psychology / Sociology<ul style="list-style-type: none">- Seminar- Course</div> <div>First Aid</div> <div>subject of choice: A</div> <div>subject of choice: B</div> <div>Technical-Propaedeutics Course Dentristry (2 Holiday bloc) ?</div>
<div>3. Semester</div> <div>Anatomy: Makroskopy<ul style="list-style-type: none">- Lecture (Präparations-Kurs begleitend)- Taxidermy-Course- Seminar- Introduction in clinical medicine (with Clinics)</div> <div>Physiologie - Lecture (organ-specific parallel with Macroscopy)</div> <div>Biochemistry / Molecularbiology<ul style="list-style-type: none">- Lecture (organ-specific parallel with Macroscopy)- Introduction in clinical medicine (with clinician)</div> <div>Clinical-chemical-biochemical Seminar = Pathobiochem.</div> <div>subject of choice: C</div> <div>subject of choice: D</div> <div>subject of choice: E</div> <div>1 Studien-Nachmittag/Wo (zur freien Verfügung für alle Studierenden)</div>	<div>4. Semester</div> <div>Physiology<ul style="list-style-type: none">- Lecture (here special aspects)- Seminar- Practical (with student Tutors)- Introduction in clinical medicine (Bloc with clinician)</div> <div>Clinical-Biophysics-Physiological Seminar</div> <div>Psychology / Soziology - Lecture</div> <div>other Integration (= clinical)Seminar: pre-clinical and clinical among each other cross-linked</div> <div>Clinical-Anatomical Seminar = Anatomy in vivo (with student Tutors)</div> <div>Revision course with focus on questions of First Part of State Examination in Psychology, Anatomy, Biochemistry, Physiology</div>

Die Graphik wurde freundlicherweise von Prof. Dr. H.-P. Richter zur Verfügung gestellt.

Curricula and timetables of the 3.-6. study year can be found:

http://www.uniklinikum-saarland.de/de/lehre/humanmedizin/2_studienabschnitt

1. Clinical Study Year										
Winter semester										
	Monday		Tuesday		Wednesday		Thursday		Friday	
	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
08:00	Q1: Practical Medical Biometry (Group 1,2)	Surgery (L)	Q1: Practical Medical Biometry (Group 3,4)	Surgery (L)	Human genetics	Surgery (L)	Microbiology (L)	Surgery (L)	Course Pathology	Surgery (L)
09:00		Paediatrics Propaedeutics		Practical Clinical Chemistry (Group 1)		Practical Clinical Chemistry (Group 2)	Course Pathology	Practical Clinical Chemistry (Group 3)		
10:00	Q7: Introduction in Medicine of aging, only 1. week of Semester		Pathology (L)		Q1: Epidemiology		Pathology (L)		Pathology (L)	
11:00	Internal (L)		Internal (L)		Microbiology (P/1)	Orthopedics (L)	Pharmacology - preliminary discussion, the week before last week of January		Internal (L)	
12:00	Pathology (L)		Pathology (L)		Microbiology (L)					
13:00		Ophthalmoscope Course	Microbiology (P/1)		Microbiology (P/2)		Microbiology (P/1)		Microbiology (P/1)	
14:00	Examination Course Internal	Q2: Ethics	Microbiology (L)	Examination Course Internal	Examination Course Internal	Orthopedics Practical	Microbiology (L)	Examination Course Internal	Microbiology (L)	CIP-Pool, Skills-Lab, Dissertation
15:00			Microbiology (P/2)				Microbiology (P/2)		Microbiology (P/2)	
16:00		Practical Surgery					Examination Course Neurology	Practical Surgery		
17:00										
18:00										

Pharmacology, Toxicology Bloc for 4 weeks, beginning first week of February

Preliminary discussion: Thursday, the week before last week of January, 11:00 for all
 Lecture: daily: 9:00 – 11:00 for all
 Seminar: daily: 14:00 – 18:00 15 groups, 4 courses/student (= 1 course / week = 16 hours)
 Examination: Saturday, last week of courses

1. Clinical Study Year

Summer semester

	Monday		Tuesday		Wednesday		Thursday		Friday	
	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
08:00	Surgery (L)	Q1: Practical Medical Biometry (Group 5,6)	Surgery (L)	Q1: Practical Medical Biometry (Group 7,8)	Surgery (L)	Human genetics	Surgery (L)	Microbiology (L)	Surgery (L)	Course Pathology
09:00	Paediatrics Propaedeutics		Practical Clinical Chemistry (Group 1)		Practical Clinical Chemistry (Group 2)		Practical Clinical Chemistry (Group 3)	Course Pathology		
10:00				Pathology (L)		Q1: Epidemiology		Pathology (L)		Pathology (L)
11:00	Internal (L)		Internal (L)		Orthopedics (L)	Microbiology (P/1)			Internal (L)	
12:00		Pathology (L)		Pathology (L)		Microbiology (L)			CIP-Pool, Skills-Lab, Dissertation	
13:00	Ophthalmoscopy Course			Microbiology (P/1)		Microbiology (P/2)		Microbiology (P/1)		Microbiology (P/1)
14:00	Q2: Ethics	Examination Course Internal	Examination Course Internal	Microbiology (L)	Orthopedics Practical	Examination Course Internal	Examination Course Internal	Microbiology (L)		Microbiology (L)
15:00				Microbiology (P/2)				Microbiology (P/2)		Microbiology (P/2)
16:00	Practical Surgery						Practical Surgery	Examination Course Neurology		
17:00										
18:00										

2. Clinical Study Year

Summer semester

	Monday		Tuesday		Wednesday		Thursday		Friday	
	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
08:00			Practical Ear, Nose and Throat Group 1	Lecture Gynaecology				Lecture Gynaecology		
09:00		Introduction in Clinical Pathology				Introduction in Clinical Pathology				Communication training
10:00	Q11: Lecture Radiology			Lecture Paediatrics			Lecture Dermatology	Lecture Paediatrics		
11:00		Case presentation Paediatrics	Lecture Ear, Nose and Throat	Lecture Neurology		Lecture Paediatrics	Neuropathology (L)		Subject of choice	Practical Neurology
12:00					Subject of choice		Lecture Anaesthesia	Subject of choice		
13:00		Q8: Lecture Emergency medical aid	Practical Ear, Nose and Throat Group 2			Q8: Lecture Emergency medical aid			eLearning Skills-Lab Dissertation	
14:00	Seminar Internal	Lecture Neurology			Lecture Ophthalmology	Seminar Internal	Lecture Psychosomatic	Seminar Internal		
15:00										
16:00		Lecture Urology	Q11: Seminar Radiology	Practical Neurology		Q5: Clinical-pathological Conference		Q8: Practical Emergency medical aid		
17:00										
18:00										

3. Clinical Study Year

Winter semester

	Monday		Tuesday		Wednesday		Thursday		Friday									
	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B								
08:00	Bloc Practical		Bloc Practical		Bloc Practical	Course Forensic medicine	Bloc Practical		Bloc Practical									
09:00		Social medicine, Q3: Health care system Q10: Prevention, Q12: Rehabilitation									Lecture Psychiatry	Course Forensic medicine	Seminar Psychiatry					
10:00																		
11:00																		
12:00						Bloc Practical						Bloc Practical		Bloc Practical	Q11: Radiation protection			
13:00																		
14:00		Q4: Course Infektiologie, Immunology														Occupational medicine und Q6: Course Clinical Environmental medicine	Course General medicine	Practical Psychiatry
15:00																		
16:00		Practical Psychiatry																
17:00																		
18:00	eLearning / Skills-Lab		Differential diagnosis		Q9: Course Clinical Pharmacology / Pharmacotherapy		Interdisciplinary Case presentation											
19:00																		

3. Clinical Study Year

Summer semester

	Monday		Tuesday		Wednesday		Thursday		Friday		
	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
08:00		Bloc Practical		Bloc Practical	Course Forensic medicine	Bloc Practical		Bloc Practical		Bloc Practical	
09:00	Social medicine, Q3: Health care system., Q10: Prevention, Q12: Rehabilitation										
10:00							Course Forensic medicine		Seminar Psychiatry		
11:00							Lecture Psychiatry		Q11: Radiation protection		
12:00											
13:00					Occupational medicine und Q6: Course Clinical Environmental medicine						
14:00	Q4: Course Infektiologie, Immunology										
15:00											
16:00	Practical Psychiatry						Course General medicine		Practical Psychiatry		
17:00											
18:00	eLearning / Skills-Lab		Differential diagnosis	Q9: Course Clinical Pharmacology / Pharmacotherapy		Interdisciplinary Case presentation					
19:00											