



ECTS-Info Package

Medical University of Vienna
www.medunivienne.ac.at/international



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1 GENERAL INFORMATION

1.1 The City of Vienna

Vienna, the capital of Austria, is a city of over 1.8 million inhabitants. It is one of the great cultural centres of Europe with a continuous history of more than 2000 years. Situated on the Danube, the first settlements arose at the cross-roads of two important trade routes: the “amber route”, connecting the Baltic countries with Italy, and the east-west route along the Danube. The latter route, together with the traces of the Roman settlement “Vindobona”, can still be seen in the layout of the city’s streets.

During the Middle Ages, Vienna rose to importance both in defending against and connecting central Europe with the East, and eventually became the capital of the vast Habsburg empire. The exceptional concentration of talent, reflected by the great achievements in music, art, and the sciences, was a consequence of Vienna’s role as a meeting place of a large number of different nations and traditions. Although much reduced in importance by the break-up of the Austro-Hungarian monarchy at the end of World War I, and placed on the periphery of the western world as a consequence of World War II, Vienna has retained its role as one of the leading capitals of Europe. Since the fall of the Iron Curtain it has successfully resumed its tradition of connecting the East and the West.

Today Vienna is a thriving international city, integrating the rich inheritance of a glorious past with a dynamic approach to the modern world. As a seat of numerous international organisations and an important turntable for business enterprises, Vienna is at the same time a city of operas, concert halls, theatres, universities, museums, and, last but not least, of coffee houses and “Heurigen”.

For more information about the city of Vienna go to the home page of the city of Vienna:

 www.wien.gv.at/

1.2 The Medical University of Vienna

 www.meduniwien.ac.at

The Medical University of Vienna was established in 2004. Before then it was part of the University of Vienna, founded in 1365 by the Habsburg Duke Rudolph IV and thus the name of “Alma Mater Rudolphina”. The main building of the University of Vienna is located on the “Ringstraße” in the centre of Vienna (underground line U2, stop “Schottentor - Universität”); the building dates from 1883, houses several administrative offices and the main University Library, as well as several departments and lecture halls. The arcades of its central courtyard exhibit the busts and memorials of a great number of illustrious members of the university.

The Viennese Medical School has a long tradition: its oldest seal dates from 1408. The present form of organisation is rooted in the reforms introduced by the empress Maria Theresia and her son Joseph II

in the 18th century. These included the organisation of a Medical School (1749), and the foundation of both a 2000-beds General Hospital (1784) and a Medico-surgical Military Academy (1785). In the 19th century, the “Vienna Medical School” rose to international fame due to the remarkable advances in research and therapy achieved by professors such as Rokitansky, Skoda, Hebra, Semmelweis, Billroth, Pirquet, and many others. In the 20th century, this tradition led to five Nobel Prizes for Medicine: Robert Bárány, Julius Wagner-Jauregg, Karl Landsteiner, Otto Loewi, and Konrad Lorenz.

In October 1998, a new campus was opened on the site of the former General Hospital (ALLGEMEINES KRANKENHAUS, AKH) for most of the departments of the Faculty of Humanities.

The clinics are now located at the Währinger Gürtel in a modern 1800 beds hospital. The preclinical departments are located on Währinger Straße in the same district. Today, the Medical University includes 69 departments, 103 full professors, and over 1000 academic staff. Together with approximately 12,000 students, this makes it one of the largest medical schools in Europe.

The newly founded Medical University started work on the 1.1.2004 comprising:

- Medicine
- Dentistry
- Medical Sciences

The rectorship, the department of studies and the International Relations Office of the new Medical University of Vienna are located in the area of the General Hospital at Spitalgasse 23, 1090 Vienna. You can get there by tramway line 5, stop: Lazarettgasse or by tramway line 33, stop: Lazarettgasse.

1.3 Studying at the Medical University of Vienna

All graduates from an Austrian High school with a “Matura” diploma (school leaving certificate, the equivalent of a British “A-level” or the German “Abitur”) or a Higher Education Entrance Qualification are entitled to take the entrance examinations. Furthermore, students may be required to take supplementary examinations in certain subjects.

At the Medical University of Vienna there are different kinds of studies:

- N201 DOCTORAL STUDIES OF MEDICINE
(Will expire by 2010)
- N202 DIPLOMA STUDIES OF MEDICINE
- N203 DIPLOMA STUDIES OF DENTISTRY
- N090 DOCTORAL STUDIES OF THE MEDICAL SCIENCES

The most outstanding feature of the degree programme concerning N201 doctoral studies of medicine (expiring 2010) is that students generally decide on the order in which they intend to complete the lectures and exams themselves.

The most outstanding feature of the degree programmes - concerning the diploma studies of medicine and dentistry N202 and N203 is the curricular system: there is a Unit Catalogue. Each unit is based on specific programmes students have to pass through!

More detailed information you will find in the chapter "The ECTS Package of the Medical University of Vienna" (12 ff.)

1.4 Academic Calendar

The academic year is divided into two semesters:

Winter semester

Start: Beginning of October

End: Beginning of February

Summer semester

Start: End of February

End: Beginning of July

In addition to the summer and February breaks, there are 2-week vacations at Easter and Christmas.

Grading system:

| | | |
|---|--------------|------------------|
| 1 | Very good | "Sehr gut" |
| 2 | Good | "Gut" |
| 3 | Satisfactory | "Befriedigend" |
| 4 | Pass | "Genügend" |
| 5 | Fail | "Nicht Genügend" |

Austrian Student's Union:

Universitätsvertretung an der Medizinischen Universität Wien

The Austrian Student's Union is the official representative body of all students in Austria. The Austrian Student's Union finances its activities with a compulsory fee ("ÖH-Beitrag"), currently € 15,36 per semester.

The International Office of the ÖH will be available for answering administrative and study questions.

Universitätsvertretung an der Medizinischen Universität Wien

Leitstelle 6M, AKH

Währinger Gürtel 18-20

A-1090 Wien

Tel. 01/403 17 59

Fax. 01/403 17 59- 16

em@il: uv@uv-medizin.at

 www.uv-medizin.at/

1.5 Libraries

University Library

The Medical University of Vienna has its University library where you will find the books relevant to your subject; click on:

 www.meduniwien.ac.at/index.php?id=46&language=1

Once you have your student identity card ("Ausweis für Studierende" with the semester sticker) and your certificate of registration ("Meldezettel") you can apply for a library card to borrow books at the lending division of the University Library.

Opening hours of the lending division

Monday to Friday 9:00 - 20:00

Saturday 9:00 - 13:00

During University Holidays there are limited opening hours.
For further information please contact the information desk.
phone (01) 40400-1095

The National Library

Österreichische Nationalbibliothek

Josefsplatz 1, A-1010 Vienna

Tel.: (+43-1) 534 10-0

All publications printed and published in Austria and all literature about Austria published in other countries or written by Austrian authors is collected by the ONB. The collection consists of about 1,8 million volumes. There is an annual fee!

The opening hours can be found under:

 www.onb.ac.at/

Libraries of the City of Vienna

Books can be borrowed at these libraries in almost every district. The main library is located in Urban-Loritz-Platz 2A, 1070 Wien

There is an annual fee!

 www.buechereien.wien.at

1.6 Computer Services

Students of the Medical University of Vienna can take up the student services offered by the ITSC - IT SYSTEMS & COMMUNICATIONS department of the Medical University of Vienna.

 www.meduniwien.ac.at/itsc/services/

MUW-StudID

 www.meduniwien.ac.at/itsc/studierende/quicklinks.php

The ITSC offers an internet service for all students of the Medical University of Vienna.

It offers the following services:

- access to all internet services, e.g.: WWW, FTP, telnet
- an email address in the form of:
nRegistrationNumber@students.meduniwien.ac.at

- free access to the internet and all other services also from home
- possibility to create your own homepage

You can use your MUW-StudID either from home or at a computer in one of the user rooms in the university.

For the activation of your MUW-StudID account you need:

- your matriculation number which is written on the payment form
- your pin-code

you have to enter a pass word which you can choose yourself (5 to 8 digits)

You will then be given a user ID (nmatriculation number, eg. n0412345).

With the user ID and your pass word you can log on. Further information will be given to you.

ITSC HelpDesk concerning IT-Services for students

Mo – Fr: 8 am – 4 pm

Phone: +43 1 40160 - 21288

eMail: stud-helpdesk@meduniwien.ac.at

Opening Hours Computer rooms

There are computer rooms for students of the Medical University of Vienna available at the Core Unit for Medical Education:

Lernzentrum, Spitalgasse 23 and Hörsaalzentrum, 6M

Währinger Gürtel 18 – 20

7.30 am - 7.30 pm

1.7 Other useful information

Price reductions for students

The ÖH, the Austrian Student's Union, can provide you with information on reductions for railways, trams, theatres, concerts, museums, books, etc.

ÖH Medizin Wien
Leitstelle 6M, AKH
Währinger Gürtel 18-20,
1090 Wien
Tel. (01) 40160 71000

 <http://www.uv-medizin.at/>

Banks/Post offices

Banks are open from 8.00 to 12.30 a.m. and from 1.30 to 3.00 p.m. Monday to Friday, except Thursday when they close at 5.30 p.m. Post offices are open for bank transactions from 8.00 to 12.00 a.m. and 2.00 to 5.00 p.m. and until 6.00 p.m. for posting letters. Only large post offices are open between noon and 2.00 p.m. The Main Post Office (Fleischmarkt 19, 1010-Vienna) is open around the clock, the post offices at the "Südbahnhof" and at the "Franz Josefs-Bahnhof" until 10.00 p.m. and the one at the "Westbahnhof" until 11.00 p.m.

Public Transportation

Vienna has a good transport system with buses, trams, underground and municipal trains that run from about 5.30 a.m. to around midnight. There are also night buses ("NightLine"). Maps of the public transportation network are available at the advance ticket-offices in the main underground stations. If you intend to use public transportation regularly, you can buy a semester ticket (October-January, March-June) for students at the advance ticket-offices. More information you get at the information hotline of "Wiener Linien" Tel.: (+43-1) 7909 120.

Vienna Night Line

For night-owls there are 22 bus lines every 30 minutes between midnight and 5.00 a.m. in the morning. They are available at the advance ticket-offices. Vienna Night Line is for free for those who have a weekly ticket, a monthly pass or the semester ticket.

 www.wienerlinien.at

Lost and Found

Vienna is quite a safe city, although you should not be careless at crowded places. You should report any loss or theft to the nearest police station. With this report you can get copies of lost/stolen ID cards. After a few days you can collect/enquire about any of your found property at the Lost and Found Office ("Zentrales Fundservice")

Zentrales Fundservice
Charlotte-Bühler-Heim
Bastiengasse 36-38
1180 Wien

Monday to Friday from 8 a.m. to 3.30 p.m., Thursday till 5.30 p.m.

Sports activities

The "Sportreferat" of the ÖH (Austrian Student's Union), AAKH, A-1090 Vienna, Alserstraße 4, and the University Sport Centre (USI), A-1150 Vienna, Auf der Schmelz 6, Tel.: (+43-1) 4277 48801 offer a wide range of activities.

☎ www.univie.ac.at/USI-Wien/

Cultural events

A free monthly guide of cultural events is available at the tourist information office: (1st district, Albertinaplatz, daily 9:00 am – 7:00 pm)

☎ <http://info.wien.at/>

Emergency calls

| | |
|---------|---|
| 122 | Fire Brigade (Feuerwehr) |
| 133 | Police (Polizei) |
| 144 | Ambulance (Rettung) |
| 141 | Emergency doctor (Notfallarzt) (7.00 p.m. to 7.00 a.m.) |
| 1550 | Chemists (Apothekenbereitschaft) (7.00 p.m. -7.00 a.m.) |
| 71719 | Emergency call for women (Frauennotruf) |
| 4064343 | Poisoning emergency (Vergiftungszentrale) |

2 EUROPEAN CREDIT TRANSFER SYSTEM: ECTS

ECTS is a system to facilitate academic recognition of courses taken abroad. It is used by more than 1000 universities in individual subjects or for all subjects.

The use of ECTS is based on:

- mutual trust of the partner institutions (to recognise courses studies taken abroad)
- use of ECTS credits and
- use of ECTS forms
- transparency by ECTS Information Packages

ECTS, the EUROPEAN CREDIT TRANSFER SYSTEM was developed by the Commission of the European Union in order to provide common procedures to guarantee academic recognition of studies abroad. It provides a way of measuring and comparing learning achievements, and transferring them from one institution to another.

The ECTS system is based on the principle of mutual trust and confidence between the participating higher education institutions. The few rules of ECTS, concerning Information (on courses available), Agreement (between the home and host institutions) and the use of Credit Points (to indicate student workload) are set out to reinforce this mutual trust and confidence. Each ECTS department will describe the courses it offers not only in terms of content but also adding credits to each course.

🔗 http://europa.eu.int/comm/education/programmes/socrates/erasmus/erasmus_en.html

The Credit System

ECTS credits are a value allocated to course units to describe the student workload required to complete them. They reflect the quantity of work each course requires in relation to the total quantity of work required to complete a full year of academic study at the institution, that is, lectures, practical work, seminars, self-study - in the library or at home - and examinations or other assessment activities. ECTS credits express a relative value.

In ECTS, 60 credits represent the workload of one year of study; normally 30 credits are given for a semester and 20 credits for a term. It is important that no special courses are set up for ECTS purposes but that all ECTS courses are mainstream courses of participating institutions, as followed by home students under normal regulations.

It is up to the participating institutions to allocate the credits for the different courses. Practical placements and optional courses which form an integral part of the course of study also receive academic credit. Practical placements and optional courses which do not form an integral part of the

course of study do not receive academic credit. Non-credit courses may, however, be mentioned in the Transcript of Records.

Credits are awarded only when the course has been completed and all required examinations passed.

Students

The students participating in ECTS will receive full credit for all academic work successfully carried out at any of the ECTS partner institutions and they will be able to transfer these academic credits from one participating institution to another as long as there is prior agreement between the institutions involved.

Most students participating in the ECTS exchange scheme will go to one single host institution in one single EU Member State, study there for a limited period and then return to their home institution. Some may decide to stay at the host institution and finish their degree there. Some may also decide to proceed to a third institution to continue their studies. In each of these three cases, students will be required to comply with the legal and institutional requirements of the country and institution where they take their degree.

When the student returns and has successfully completed the study programme previously agreed upon between the home and the host institutions, credit transfer will then take place, and the student will continue the study course at the home institution without any loss of time or credit. If, on the other hand, the student decides to stay at the host institution and to take his/her degree there, he/she may have to adapt his/her study course to the legal, institutional and departmental rules in the host country, institution and department.

Fees

Students shall not be required to pay tuition fees at the host institution. The student may, however, be required to continue to pay his/her normal tuition fees to the home institution during the study period abroad.

The national scholarship to which a student may be entitled for study at his/her institution may not be discontinued, interrupted or reduced while that student is studying in another Member State and is receiving an ERASMUS grant.

Students will also have to pay the compulsory fee ("ÖH-Beitrag") for the Austrian Students Union (2010: € 16,86) prior to registration. To facilitate the process, students will receive approximately one month before their arrival in Vienna the necessary information. Please pay the fee right away, because further administrative steps such as student card and an official registration certificate require that the fee has been credited to the University. There is no transaction fee within the EU if the IBAN and BIC codes are used.

Grants

The selection of students who will receive mobility grants will be carried out by each institution. Students may only be awarded grants if they fulfill the general conditions of eligibility for the ERASMUS grant. These are:

- Students must be citizens of one of the EU Member States or citizens of one of the EFTA countries (or must be recognised by one Member State or one EFTA country as having an official status of refugee or stateless person or permanent resident).
- As to EFTA nationals, students will be eligible provided they are moving within the framework of ERASMUS from the respective EFTA home country to an EU Member State. EFTA nationals registered as students in ECTS participating institutions in other EFTA countries or in EU Member States are only eligible for participation in ECTS if they have established a right of permanent residence.
- One study period abroad must not last less than 3 months or more than months.
- Students in the first year of their studies are not eligible for receiving ERASMUS grants.

Planning the programme of study abroad

Students who wish to study abroad must contact the International Office of their own university. There information packages of partner institutions are available which should be used to choose the destination and plan the programme of study abroad. The packages help students to select courses which are appropriate in their content and academic level so that they can be recognised by the home institution as part of the student's degree programme.

Use of the ECTS credits helps students to organise a study programme which is feasible in terms of overall workload. The ECTS credit rating demonstrates the relative weight of each course in the proposed programme of study.

Ensuring full academic recognition

An ECTS study programme must be approved by both the home and the host institutions before the student leaves for the study period abroad. If the programme of study described in the learning agreement is completed successfully by the student, it will be fully recognised by the home institution.

The transfer of ECTS credits

Home and host institutions prepare and exchange Transcripts of Records for each student participating in ECTS before and after the period of study abroad. A copy of these transcripts is given to the student for his/her personal file.

3 THE ECTS PACKAGE OF THE MEDICAL UNIVERSITY OF VIENNA

This information package describes the courses offered by the Medical University of Vienna in order to help the prospective ECTS students to prepare their study period in this institution.

Partner Institutions

as of January 2010

[M = Medicine / MI = Medical Informatics / NPHC = Network of Primary Health Care / D = Thesis]

| | | |
|--|---|--|
| Belgium | BE : Université Libre de BRUXELLES ULB [2M] | |
| | BE : Vrije Universiteit BRUSSEL VUB [1M] | |
| | BE : Universiteit GENT [1NPHC] | |
| | BE : Katholieke Universiteit LEUVEN [1M] | |
| Bulgaria | BG : Meditsinski Universitet - SOFIA [2M] | |
| Czech Republic | CZ : Masaryk University BRNO [1M] | |
| | CZ : Charles University in PRAGUE – 1. Medical School [1M] / 2. Medical School [2M] | |
| Denmark | DK : AARHUS Universitet [2M] | |
| | DK : KØBENHAVN Universitet [2M] | |
| Finland | FI : University of TURKU - Turun yliopisto [1M] | |
| | FI : University of OULU / OULUN YLIOPISTO [1M] | |
| France | FI : ITÄ SUOMEN Yliopisto / University of Eastern Finland - UEF [2M] | |
| | FR : Université Victor Segalen BORDEAUX 2 [2M] | |
| | FR : Université Claude Bernard LYON 1 [1M] | |
| | FR : Université Catholique de LILLE [1M] | |
| | FR : Université de la Méditerranée AIX-MARSEILLE II [2M] | |
| | FR : Université de NICE [1NPHC] | |
| | FR : Université Descartes - PARIS V [3M] | |
| | FR : Université Pierre et Marie Curie - PARIS VI [2M] | |
| | FR : Université PARIS XI - Le Kremlin-Bicêtre [3M] | |
| | FR : Université de RENNES I [2M] | |
| | FR : Université Louis Pasteur STRASBOURG I [2M] | |
| | Germany | DE : Charité - Universitätsmedizin BERLIN [2M] |
| | | DE : Rheinische Friedrich-Wilhelms-Universität BONN [1M] |
| DE : Technische Universität DRESDEN [2M] | | |
| DE : Heinrich-Heine-Universität DÜSSELDORF [1NPHC] | | |
| DE : Albert-Ludwigs-Universität FREIBURG [2M] | | |
| DE : Georg-August-Universität GÖTTINGEN [2M] | | |
| DE : Medizinische Hochschule HANNOVER [1NPHC] | | |
| DE : Ruprecht-Karls-Universität HEIDELBERG [6M] | | |
| DE : Christian-Albrechts-Universität zu KIEL [2D] | | |
| DE : Universität zu KÖLN [3M] | | |
| DE : Universität zu LÜBECK [2M] | | |
| DE : Technische Universität MÜNCHEN TUM [2M] | | |

3 THE ECTS PACKAGE OF THE MEDICAL UNIVERSITY OF VIENNA

| | |
|----------------------|---|
| | DE : Ludwig-Maximilians-Universität MÜNCHEN LMU [2M] |
| | DE : Westfälischen Wilhelms-Universität MÜNSTER [2M] |
| | DE : Universität des SAARLANDES [2M] |
| Great Britain | GB: University of CAMBRIDGE [1D] |
| | GB : University of BRISTOL [2M] |
| | GB : Imperial College LONDON [1NPHC] |
| | UK : University of LIVERPOOL [3M - ONLINE] |
| | GB : University of EDINBURGH [1NPHC] |
| | GB : University of NOTTINGHAM [1NPHC] |
| Greece | GR : National and Capodistrian University of ATHENS [2M] |
| | GR : University of CRETE [2M] |
| | GR : Aristotle University of THESSALONIKI [2M] |
| Hungary | HU : Semmelweis Egyetem / Semmelweis University BUDAPEST [2M] |
| | HU : University of PÉCS [2M] |
| | HU : SZEGEDI Tudományegyetem / University of SZEGED [3M] |
| Italy | IT : Università degli Studi di BARI [1M] |
| | IT : Università di BOLOGNA - Alma Mater Studiorum [2M] |
| | IT : Università degli Studi di FERRARA [2M] |
| | IT : Università degli Studi di FIRENZE [2M] |
| | IT : Università degli Studi di NAPOLI Federico II [2M] |
| | IT : Università degli Studi di FOGGIA [2M] |
| | IT : Seconda Università degli Studi di NAPOLI - SUN [2M] |
| | IT : Università degli Studi di MILANO [2M - Online] |
| | IT : Università di MILANO il Bicocca [1NPHC] |
| | IT : Università degli Studi di PADOVA [2M] |
| | IT : Università degli Studi di PERUGIA [2M] |
| | IT : Università degli Studi del PIEMONTE Orientale "Amedeo Avogadro" [2D] |
| | IT : Università degli Studi di ROMA "La Sapienza" [2M+1D] |
| | IT : Università degli Studi di UDINE [1NPHC] |
| | IT : Università degli Studi della Tuscia di VITERBO [2D] |
| Netherlands | NL : Universitet van AMSTERDAM - UVA [2MI] |
| | NL : Universiteit LEIDEN [2M] |
| | NL : Radboud Universiteit NIJMEGEN [1NPHC] |
| Poland | PL : Uniwersytet Jagielloński Collegium Medicum KRAKÓW [1M] |
| | PL : POZNAN University of Medical Sciences [2MI] |
| | PL : Akademia Medyczna w GDANSKU [1NPHC] |
| | PL : Medical University of WARSAW [2M] |
| Portugal | PT : Universidade de COIMBRA [1M] |
| | PT : Universidade de LISBOA [2M] |
| | PT : Universidade do PORTO [2M] |
| Romania | RO : Universitatea "Iuliu Hatieganu" din CLUJ-NAPOCA [2M] |
| | RO : Universitatea tehnica din CLUJ-NAPOCA [3D] |
| | RO : "Carol Davila" University of Medicine and Pharmacy BUCHAREST [2M] |
| | RO : Medizinische und Pharmazeutische Universität "Victor Babes" TIMISOARA [2M] |
| Slovakia | SK : Comenius University BRATISLAVA/Jessenius Faculty of Medicine MARTIN [2M] |

3 THE ECTS PACKAGE OF THE MEDICAL UNIVERSITY OF VIENNA

| | |
|--------------------|---|
| Slovenia | SI : University of LJUBLJANA [1NPHC] SI : Univerza v MARIBORU [2M] |
| Spain | ES : Universidad Miguel Hernández de ELCHE (ALICANTE) [2M] ES : Universitat Autonoma de BARCELONA [2M - ONLINE] ES : Universidad Autónoma de MADRID [4M - ONLINE] ES : Universidad de Cádiz [2M] ES : Universidad de MURCIA [2M] ES : Universidad de SALAMANCA [2M] ES : Universidad de OVIEDO [1M] ES : Universidad de SANTIAGO DE COMPOSTELA [2M] ES : Universidad de SEVILLA [2M] ES : Universitat Rovira i Virgili TARRAGONA [1M] ES : Universidad de La Laguna - TENERIFE [3M] ES : Universidad de VALENCIA [4M] ES : Universidad de VALLADOLID [1M] |
| Sweden | SE: LINKÖPINGS Universitet [2M] SE : LUNDS Universitet [2M] SE : GÖTEBORG University - Sahlgrenska Academy [1NPHC] SE : Karolinska Institutet STOCKHOLM [2M] |
| Switzerland | CH : Universität BASEL [2M] CH : Université de LAUSANNE [3M] CH : Universität BERN [2M] CH : Universität ZÜRICH [2M+1MS] |
| Turkey | TR : İstanbul Üniversitesi [2M] TR : Akdeniz University ANTALYA [1NPHC] TR : KOCAELI Üniversitesi [1NPHC] |

3.1 Registration

Registration of ERASMUS and ECTS students is done through the International Relations Office in a special orientation session at the beginning of each semester. For registration you will need:

1. Your ECTS documents.
2. A photograph (passport size)
3. MAESTRO Card for the payment of the compulsory ÖH-fee if not already transferred via internet banking before your arrival in Vienna

3.2 Language of instruction

All lectures and most textbooks are in German. If you need language preparation, you can enrol in the German courses of the

Wiener Internationale Hochschulkurse

Universitätscampus AAKH
Alserstraße 4, Hof 1.16
A-1090 Wien, Austria
Tel. + 43 - 1 - 4277-24101

📄 www.univie.ac.at/WIHOK/

Please contact the Institutional Coordinator if you wish to attend a language course or if you need further information.

3.3 Accommodation

The ÖAD (ÖSTERREICHISCHER AUSTAUSCH DIENST=AUSTRIAN ACADEMIC EXCHANGE SERVICE) arranges accommodation for ERASMUS students in student housing facilities. In order to reserve a room please take a look at the website of the ÖAD!

📄 www.oead.ac.at/

3.4 Health and insurance

Please bring your E 111 form for your health insurance. If you forget it or wish to join the Austrian Student Insurance instead, you can do so only after registering with the University. Once you have registered you are entitled to join the student insurance scheme of the "Wiener Gebietskrankenkasse".

📄 www.wgkk.at

3.5 Cost of living

In addition to the cost for housing you will need at least 300 € per month for your living expenses. Food and restaurants are rather expensive, but there exist a number of cafeterias and mensas that offer reasonably priced meals for students.

3.6 Visa requirements

If you are a citizen of the European Union or of an EFTA country, you need a valid passport to enter Austria. If you stay for longer than three months in Austria, an additional registration is necessary. More information will be supplied during registration. If you have a different citizenship but are entitled to participate in the ECTS program (see general introduction), please contact your Institutional Coordinator for visa requirements.

3.7 Registration with the Vienna City Administration

Once in Austria, you have to register with the Vienna City Administration within three days of arrival. This is done by filling in a registration form (Meldezettel) and submitting it to the Municipal District

Offices. You can obtain this form in every Municipal District Office or you can download it from the website of the Municipal Administration of Vienna:

📄 www.wien.gv.at/

The international office will provide you with the addresses of the nearest registration Office.

3.8 Arrival

Students are strongly advised to arrive several days before the actual start of the semester. This gives you time to settle in and to become acquainted with the system. Many of the applications for practicals and the introductory lectures take place on the first days of the semester! You are bound to miss them if you only arrive during that period!

The Medical University building should be your first stop when you arrive in Vienna. In the International Office (Büro für Internationale Beziehungen) you will be provided with information on registration, housing, insurance, orientation session, etc.

Enter the building through the main entrance on the Spitalgasse. Immediately to your left there is an information booth where you can ask for directions.

The office hours of the International Office are: Monday, Tuesday, Wednesday and Friday from 09.00 to 12.00, and Thursday from 14.00 to 17.00.

3.9 ECTS Coordination

The Departmental Coordinator is responsible for the academic contents of ECTS exchange programs. He is charged with the evaluation of the study programs of outgoing and incoming students, with the selection and nomination of outgoing students, and with the confirmation of credits on the transcripts of work.

The Institutional Coordinator is responsible for the administrative procedures of ECTS exchange programs. This includes the financial administration, accommodation, information of incoming and outgoing students, and the preparation and distribution of application forms, transcripts, etc.

The Student Advisors from the Student Union (Universitätsvertretung an der Medizinischen Universität Wien) will help you with all questions concerning practical aspects of your studies, such as choice and location of courses, timing and application for practicals, clerkships, exams, or any other practical problems that arise.

Please help to keep redundancies in counselling low by addressing coordinators and advisors with problems that fall into their respective responsibilities. Names, addresses, telephone and fax numbers are listed below.

3.10 ECTS - Team

Institutional Coordinator:

Human Salemi, MSc, DSc
International Relations Office
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A-1090 Vienna, Austria
Tel: + 43 - 1 - 40160 - 21023
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Departmental Coordinator:

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International Relations Officer:

Christine Baier, MA
(in charge of incoming students)
International Relations Office
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Tel: + 43 - 1 - 40160 - 21014
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christine.baier@meduniwien.ac.at

4 THE DIPLOMA STUDIES OF MEDICINE N202

THE VIENNA MEDICAL CURRICULUM is based on integration of non-clinical and clinical learning: in every single **learning unit (Module)** students will learn about structure and function, as well as the most important and most frequent diseases and therapies. In addition there are courses called "Lines" which take place throughout the semester. They establish the connection to clinical work with their focus on clinical skills.

Problem based learning (PBL) and **Case based learning (CBL)** supplement other instructional methods.

The third stage of study (semester 9-12) emphasises intensive clinical training.

Practice-orientation is the most outstanding feature of the Viennese Medical Curriculum. The first patient contact takes place during the third semester.

In this curriculum there are different kinds of examinations:

Practical courses and seminars with immanent examination character (assessment on the basis of permanent written or oral contributions within the framework of the course).

FIPs (FORMATIVE INTEGRATED EXAMS) at the end of each winter semester: this multiple choice exam gives feedback to the students about their learning performance.

SIPs (SUMMATIVE INTEGRATED EXAMS) at the end of each academic year: here the course content of the whole academic year is examined with multiple choice questions. This exam must be passed to receive ECTS credits for the courses of the preceding academic year.

The duration of the diploma studies of medicine is 12 semesters:

The **first stage of study** covers 2 semesters.

The **second stage of study** covers 6 semesters.

The **third stage of study** covers 4 semesters.

As a graduation requirement students are required to write a diploma thesis. The modules 7, 17 and 24 focus on scientific training and enable students to perform the research for their thesis.

In addition, students have to take a series of **clinical clerkships** for a total of 18 weeks.

| | | | | | | | | | | | | | | |
|---|--|---|--|--|--|---|--|---|--|---|--|---|--|-------------|
| Module 1 Health and Diseases (3) | | Module 2 The Human Body (6) | | Module 3 From Molecule to Cell (6) | | Module 4 Functional Systems and Biological Regulation (5) | | Module 5 Genetics, Molecular & Cellular Communication (3) | | Module 6 Environment, Family & Society (3) | | SIP1 | | |
| FP1 | | Social Skills First Aid | | Social Skills First Aid | | Health Assessment | | Health Assessment | | Health Assessment | | | | |
| Module 7 (SSM 1) Science & Medicine (5) | | Module 8 Disease, Origin & Symptoms (6) | | Module 9 Disease, Manifestation & Perception, General Pharmacotherapy (6) | | Module 10 Endocrinology and Metabolism (3) | | Module 11 Cardiovascular System and Blood (3,5) | | Module 12 Respiratory System (5) | | SIP2 | | |
| FP2 | | Basic Medical Skills, Medical Interview A Problem oriented learning POL | | Basic Medical Skills, Medical Interview A Problem oriented learning POL | | Physical Examination Techniques, Propedeutic in Clerkship Case based Learning (CBL), Organmorphology I | | Physical Examination Techniques, Propedeutic in Clerkship Case based Learning (CBL), Organmorphology I | | Physical Examination Techniques, Propedeutic in Clerkship Case based Learning (CBL), Organmorphology I | | | | |
| Module 13 Nutrition and Digestion (4) | | Module 14 Kidney and Homeostasis (3) | | Module 15 Sexuality, Reproduction, Gravidity and Birth (4) | | Module 16 Infants, Childhood and Adolescence (4) | | Module 17 (SSM 2) Methodology of Medical Science (3) | | Module 18 Skin and Sensory Organs (4) | | Module 19 Brain and Nervous System (6) | | SIP3 |
| FP3 | | Specific Examination Techniques I, Resuscitation Techniques I Case based Learning (CBL), Organmorphology II | | Specific Examination Techniques I, Resuscitation Techniques I Case based Learning (CBL), Organmorphology II | | Neurological Status, Medical Interview B Problem oriented Learning (POL), Organmorphology III | | Neurological Status, Medical Interview B Problem oriented Learning (POL), Organmorphology III | | Neurological Status, Medical Interview B Problem oriented Learning (POL), Organmorphology III | | | | |
| Module 20 Psychic Functions in Health and Disease (5) | | Module 21 Locomotion, Performance and Pain (4) | | Module 22 Occupational & Environmental Diseases, Forensic Medicine, Public Health & Radioprotection | | Module 23 Ethics, Chronic Diseases, Handicap & Gerontology (4) | | SIP4 | | Module 24 (SSM 3) Project Studies (6) | | SIP5 | | |
| FP5 | | Specific diagnostic Skills, Specific Examination Techniques II, Basics in Sonography Problem oriented Learning (POL) | | Specific Examination Techniques II, Basics in Sonography Problem oriented Learning (POL) | | Specific Examination Techniques III, Resuscitation Techniques II Clinical practical Propedeutics | | Specific Examination Techniques III, Resuscitation Techniques II Clinical practical Propedeutics | | Specific Examination Techniques III, Resuscitation Techniques II Clinical practical Propedeutics | | | | |
| Internal Medicine (10) | | Emergency Medicine, Intensive Care (5) | | Applied Medical Science I (5) | | Surgery (10) | | Clinical Diagnostics A General Practice A | | Clinical Diagnostics A General Practice A | | SIP6 | | |
| Neurology (5) | | Psychiatry (5) | | Pediatrics (5) | | Gynecology & Obstetrics (5) | | Ophthalmology (2,5) ORL (2,5) | | Dermatology (3) | | | | |
| Interdisciplinary Patients Management, Clinical Diagnostics B General Practice B | | Interdisciplinary Patients Management, Clinical Diagnostics B General Practice B | | Interdisciplinary Patients Management, Clinical Diagnostics B General Practice B | | Interdisciplinary Patients Management, Clinical Diagnostics B General Practice B | | Interdisciplinary Patients Management, Clinical Diagnostics B General Practice B | | Applied Medical Science II (Z) | | | | |

| I. Stage of Study (2 terms) | | | | |
|---|----------------------------|--------------|-----------------------|-------------|
| Semester 1 (Winter Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Health and Diseases | A-LSUD 1 DIPLM M1 | 4,7 | 1,6 | 6,3 |
| The Human Body | A-LSUD 1 DIPLM M2 | 10,4 | 1,2 | 11,6 |
| From Molecule to Cell | A-LSUD 1 DIPLM M3 | 9,0 | 2,5 | 11,5 |
| Social Skills | A-LSUD 1 DIPLM L1 | | 2,9 | 2,9 |
| First Aid | A-LSUD 1 DIPLM L2 | | 1,1 | 1,1 |
| Optional Subjects | A-LSUD 1 DIPLM OPT1 | | | 2,0 |
| | | | | 35,4 |
| Semester 2 (Summer Term) | | | | |
| Functional Systems and Biological Regulation | A-LSUD 1 DIPLM M4 | 8,6 | 1,4 | 10,0 |
| Genetics, Molecular & Cellular Communication | A-LSUD 1 DIPLM M5 | 4,0 | 1,7 | 5,7 |
| Environment, Family & Society | A-LSUD 1 DIPLM M6 | 4,6 | 1,2 | 5,8 |
| Health Assessment | A-LSUD 1 DIPLM L3 | | 1,1 | 1,1 |
| Optional Subjects | A-LSUD 1 DIPLM OPT2 | | | 2,0 |
| | | | | 24,6 |
| per anno | | | | 60 |
| II. Stage of Study (4 terms) | | | | |
| Semester 3 (Winter Term) | | | | |
| Science & Medicine (SSM I) | A-LSUD 2 DIPLM M7 | 1,4 | 4,1 | 5,5 |
| Disease, Origin & Symptoms | A-LSUD 2 DIPLM M8 | 8 | 3 | 11 |
| Disease, Manifestation & Perception & General Pharmacotherapy | A-LSUD 2 DIPLM M9 | 6,2 | 4,9 | 11,1 |
| Medical Interview A | A-LSUD 2 DIPLM L4A | | 1,0 | 1,0 |
| Basic Medical Skills | A-LSUD 2 DIPLM L5 | | 1,0 | 1,0 |
| Problem oriented learning (POL) | A-LSUD 2 DIPLM POL | | 2,1 | 2,1 |
| Optional Subjects | A-LSUD 2 DIPLM OPT3 | | | 2,0 |
| | | | | 33,7 |
| Semester 4 (Summer Term) | | | | |
| Endocrinology and Metabolism | A-LSUD 2 DIPLM M10 | 3,5 | 0,7 | 4,2 |
| Cardiovascular System and Blood | A-LSUD 2 DIPLM M11 | 5,3 | 2,9 | 8,2 |
| Respiratory System | A-LSUD 2 DIPLM M12 | 3,3 | 1,1 | 4,4 |
| Physical Examination Techniques II | A-LSUD 2 DIPLM L6 | | 1,0 | 1,0 |
| Propedeutic in Clerkship | A-LSUD 2 DIPLM L7 | | 1,0 | 1,0 |
| Organ Morphology I | A-LSUD 2 DIPLM L8A | | 3,3 | 3,3 |
| Case Based Learning (CBL) | A-LSUD 2 DIPLM CBL | | 2,1 | 2,1 |
| Optional Subjects | A-LSUD 2 DIPLM OPT4 | | | 2,0 |
| | | | | 26,3 |
| per anno | | | | 60 |

| Semester 5 (Winter5 Term) | | | | |
|--|-----------------------------|--------------|-----------------------|-------------|
| Nutrition and Digestion | A-LSUD 3 DIPLM M13 | 3,7 | 1,6 | 5,3 |
| Kidney and Homeostasis | A-LSUD 3 DIPLM M14 | 2,8 | 1,2 | 4,0 |
| Sexuality, Reproduction, Gravidity and Birth | A-LSUD 3 DIPLM M15 | 4,1 | 1,2 | 5,3 |
| Infants, Childhood and Adolescence | A-LSUD 3 DIPLM M16 | 5,4 | 1,2 | 6,6 |
| Case Based Learning (CBL) | A-LSUD 3 DIPLM CBL | | 1,9 | 1,9 |
| Organ Morphology II | A-LSUD 2 DIPLM L8B | | 3,6 | 3,6 |
| Specific Examination Techniques I | A-LSUD 3 DIPLM L9A | | 0,9 | 0,9 |
| Resuscitation Techniques I | A-LSUD 3 DIPLM L10A | | 0,9 | 0,9 |
| Clerkship | A-LSUD 3 DIPLM CLS1 | | | 2,0 |
| Optional Subjects | A-LSUD 3 DIPLM OPT5 | | | 2,0 |
| | | | | 32,5 |
| Semester 6 (Summer Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Methodology of Medical Science - SSM2 | A-LSUD 2 DIPLM M17 | 1,0 | 4,0 | 5,0 |
| Skin and Sensory Organs | A-LSUD 3 DIPLM M18 | 4,6 | 1,0 | 5,6 |
| Brain & Nervous System | A-LSUD 3 DIPLM M19 | 6,2 | 0,6 | 6,8 |
| Neurological Status | A-LSUD 3 DIPLM L11 | | 0,9 | 0,9 |
| Medical Interview B | A-LSUD 4 DIPLM L4B | | 0,9 | 0,9 |
| Problem oriented Learning (POL) | A-LSUD 3 DIPLM POL | | 1,9 | 1,9 |
| Organ Morphology III | A-LSUD 2 DIPLM L8C | | 2,4 | 2,4 |
| Clerkship | A-LSUD 3 DIPLM CLS2 | | | 2,0 |
| Optional Subjects | A-LSUD 3 DIPLM OPT6 | | | 2,0 |
| | | | | 27,5 |
| per anno | | | | 60 |
| Semester 7 (Winter Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Psychic Functions in Health and Disease | A-LSUD 4 DIPLM M20 | 5,8 | 3,6 | 9,4 |
| Locomotion, Performance and Pain | A-LSUD 4 DIPLM M21 | 6,0 | 1,4 | 7,4 |
| Occupational & Environmental Diseases, Forensic Medicine, Public Health & Radio Protection | A-LSUD 4 DIPLM M22 | 5,8 | 1,7 | 7,5 |
| Specific Diagnostic Skills | A-LSUD 4 DIPLM L12 | | 1,1 | 1,1 |
| Basics in Sonography | A-LSUD 4 DIPLM L13 | | 0,5 | 0,5 |
| Specific Examination Techniques II | A-LSUD 4 DIPLM L9B | | 0,5 | 0,5 |
| Problem Oriented Learning (POL) | A-LSUD 4 DIPLM POL | | 2,1 | 2,1 |
| Optional Subjects | A-LSUD 4 DIPLM OPT7 | | | 3,0 |
| Clerkship | A-LSUD 4 DIPLM CLS3 | | | 2,0 |
| | | | | 33,5 |
| Semester 8 (Summer Term) | | | | |
| Ethics, Chronic Diseases, Handicap & Gerontology | A-LSUD 4 DIPLM M23 | 4,7 | 2,8 | 7,5 |
| Project Studies (SSM III) | A-LSUD 4 DIPLM M24 | 1,1 | 6,2 | 7,3 |
| Clinical Practical Propaedeutics | A-LSUD 4 DIPLM L14 | | 2,1 | 2,1 |
| Specific Examination Techniques III | A-LSUD 4 DIPLM L9C | | 1,1 | 1,1 |
| Resuscitation Techniques II | A-LSUD 4 DIPLM L10B | | 0,5 | 0,5 |
| Clerkship | A-LSUD 4 CLS4 | | | 2,0 |
| Diploma Thesis A | A-LSUD 5 DIPLM THESA | | | 6,0 |
| | | | | 26,5 |
| per anno | | | | 60 |

| III. Stage of Study (6 terms) | | | | | |
|---------------------------------------|-----------------------------|--------------|-----------------------|-----------------------|-----------|
| Semester 9 (Winter Term) | | | | | |
| Module | Code / Year | ECTS-Credits | | | |
| | | Lecture | Practical/ Seminar | Clinical Practical | Total |
| Internal Medicine | A-LSUD 5 DIPLM INTM | | 6,4 | 9,1 | 15,5 |
| Emergency Medicine, Intensive Care | A-LSUD 5 DIPLM EMM | 1,4 | 1,7 | 4,1 | 7,3 |
| Clinical Diagnostics A | A-LSUD 6 DIPLM L15A | | 2,3 | | 2,3 |
| General Practice A | A-LSUD 6 DIPLM L16A | | 1,2 | | 1,2 |
| Semester 10 (Summer Term) | | | | | |
| Surgery | A-LSUD 5 DIPLM SURG | 5,5 | | 9,0 | 14,5 |
| Applied Medical Science I | A-LSUD 5 DIPLM AMSC1 | 1,4 | 4,8 | | 6,2 |
| Diploma Thesis B | A-LSUD 6 DIPLM THESB | | | | 7,0 |
| Clerkship | A-LSUD 5 DIPLM CLS5 | | | | 6,0 |
| per anno | | | | | 60 |
| Semester 11 (Winter Term) | | | | | |
| Module | Code / Year | ECTS-Credits | | | |
| | | Lecture | Practical/ Seminar | Clinical Practical | Total |
| Neurology | A-LSUD 6 DIPLM NEUR | 1,4 | 2,4 | 3,4 | 7,2 |
| Psychiatry | A-LSUD 6 DIPLM PSYC | 1,4 | 2,7 | 3,1 | 7,2 |
| Pediatrics | A-LSUD 6 DIPLM PED | 2,0 | 2,0 | 3,1 | 7,2 |
| Interdisciplinary Patients Management | A-LSUD 6 DIPLM L17 | | 3,1 | | 3,1 |
| Clinical Diagnostics B | A-LSUD 6 DIPLM L15B | | 0,8 | | 0,8 |
| General Practice B | A-LSUD 6 DIPLM L16B | | 1,2 | | 1,2 |
| Semester 12 (Summer Term) | | | | | |
| Gynecology & Obstetrics | A-LSUD 6 DIPLM GYN | | 3,1 | 4,1 | 7,2 |
| Ophthalmology | A-LSUD 6 DIPLM OPHT | 1,0 | 1,0 | 2,0 | 4,1 |
| Otolaryngology | A-LSUD 6 DIPLM ORL | 1,4 | 1,0 | 1,7 | 4,1 |
| Dermatology | A-LSUD 6 DIPLM DERM | 1,0 | 2,4 | 1,7 | 5,1 |
| Applied Medical Science II | A-LSUD 5 DIPLM AMSC2 | 0,3 | 1,7 | | 2,0 |
| Diploma Thesis C | A-LSUD 6 DIPLM THESC | | | | 7,0 |
| Clerkship | A-LSUD 6 DIPLM CLS6 | | | | 4,0 |
| per anno | | | | | 60 |

4.1 The First Stage of Study

The first two semesters of the first stage of study comprise compulsory lectures to the extent of 39,4 hours. Students have to attend the following lectures, seminars and practicals:

MODULE 1 A-LSUD 1 DIPLM M1 HEALTH AND DISEASES

Semester: 1

Lecture: 49 hrs; 4,7 ECTS credits

Practical course: 17 hrs; 1,6 ECTS credits

Total: 66 hrs; 6,3 ECTS credits

Exam: written; part of SIP1

Contents: The lectures and the small group classes introduce students to main focus topics of the medical studies as a first orientation. Topics of general relevance (such as gender specific issues, medical ethics, medical law, proper conduct with patients, etc.) are deepened and rendered more practice-related in instructed classes. Furthermore, students are prepared for the main topics of the modules of the first study year.

MODULE 2 A-LSUD 1 DIPLM M2 THE HUMAN BODY

Semester: 1

Lecture: 108 hrs; 10,4 ECTS credits

Practical course: 12 hrs; 1,2 ECTS credits

Total: 120 hrs; 11,6 ECTS credits

Exam: written; part of SIP1

Contents: The course focuses on morphology and physiology of all organ systems of both genders, especially on the musculoskeletal system, circulatory system, respiratory system, digestive system, urogenital system, endocrine and nervous systems (lecture + practical).

MODULE 3 A-LSUD 1 DIPLM M3 FROM MOLECULE TO CELL

Semester: 1

Lecture: 94 hrs; 9,0 ECTS credits

Practical course: 26 hrs; 2,5 ECTS credits

Total: 120 hrs; 11,5 ECTS credits;

Exam: written; part of SIP1

Contents: After a presentation of physical-chemical principles essential for a general understanding of modern cell biology, the course deals with organization of pro- and eukaryotes, cellular compartments, cell organelles, metabolism, energy production, transport, homeostasis, signal transduction, cell dynamics, information, organization of the nucleolus, cell division, cell death.

This basic knowledge is supported by clinical studies for a general understanding of normal cell behaviour as well as pathomechanisms.

The practical provides an introduction to expert methodology and laboratory work. In the seminar the fundamental concepts are discussed and applied through examples.

LINE 1 A-LSUD 1 DIPLM L1**SOCIAL SKILLS****Semester:** 1**Practical course:** 30 hrs; 2,9 ECTS credits**Total:** 30 hrs; 2,9 ECTS credits

exam: immanent examination character

Contents: The line element consists of an introductory seminar, a practical course and a tutorial. The seminar covers the theoretical aspects of the topic whereas during the practical students make direct contact with patients in need of care. Additionally, the observations are reflected and discussed in the weekly tutorial. The goal is to sensitize the student for adequate communication, empathy and appreciation during the treatment of patients as well as for professional behaviour in the interdisciplinary team. Furthermore, the aim is to encourage critical reflexion as well as the awareness of gender specific, social and cultural issues influencing health and disease.

LINE 2A A-LSUD 1 DIPLM L2A**FIRST AID****Semester:** 1**Practical course:** 15 hrs; 1,1 ECTS credits**Total:** 15 hrs; 1,1 ECTS credits

exam: immanent examination character

Contents: Goal of the practical is to practice the required skills to give efficient and proper First Aid (on a manikin) according to general guidelines.

MODULE 4 A-LSUD 1 DIPLM M4**FUNCTIONAL SYSTEMS AND BIOLOGICAL REGULATION****Semester:** 2**Lecture:** 90 hrs; 8,6 ECTS credits**Practical course:** 15 hrs; 1,4 ECTS credits**Total:** 105 hrs; 10,0 ECTS credits**Exam:** written; part of SIP1

Contents: The lecture gives an overview of the functions of the somatic and vegetative nervous system, the inner organs, and the physiologic and biochemical aspects of metabolism with regard to the endocrine regulation. In the practical, the students learn examination methods of basic body systems (respiration, circulatory system, muscular functions, equilibrium, neuronal regulation) as well as basic blood work analysis.

MODULE 5 A-LSUD 1 DIPLM M5**GENETICS, MOLECULAR & CELLULAR COMMUNICATION****Semester:** 2**Lecture:** 42 hrs; 4,0 ECTS credits**Practical course:** 18 hrs; 1,7 ECTS credits**Total:** 60 hrs; 5,7 ECTS credits**Exam:** written; part of SIP1

Contents: In the lecture, the seminar and the practical the organization of the Human Genome, including principles of inheritance, genetic expression, and the cell cycle are discussed. Furthermore, students are taught the basics of genetic technology, as well as its application in diagnostics and

therapy. Additionally, medical ethical aspects of gene technology are discussed. Lastly, molecular aspects of morphogenesis are introduced.

MODULE 6 **A-LSUD 1 DIPLM M6**
THE HUMAN IN ENVIRONMENT, FAMILY & SOCIETY

Semester: 2

Lecture: 48 hrs; 4,6 ECTS credits

Practical course: 12 hrs; 1,2 ECTS credits

Total: 60 hrs; 5,8 ECTS credits

Exam: written; part of SIP1

Contents: The lecture deals with the basics of external causes for diseases and aspects of evolutionary biology, psychology, sociology, ethics, gender specific issues, and cross culture influencing health and pathology, examines the healthy and pathological psyche regarding disease, death, and dying with a focus on environment, such as working environment, including the basics of radiation biology, the psyche, the stages of life and family. Through discussion and practice in small groups as well as through private study the theoretic part is practically applied.

LINE 3 **A-LSUD 1 DIPLM L3**
HEALTH ASSESSMENT

Semester: 2

Practical course: 15 hrs; 1,1 ECTS credits

Exam: immanent examination character

Contents: The students practice physical examination techniques on the healthy human as well as basic techniques of infection control and hygiene.

4.2 The Second Stage of Study

During the six semesters of the second stage of study students have to attend compulsory courses to the extent of 115,3 hours and optional subjects to the extent of 8,7 hours. The courses are held in the form of lectures, seminars and practicals.

MODULE 7 **A-LSUD 2 DIPLM M7**
SPECIFIC STUDY MODULE 1 (SSM1): SCIENCE & MEDICINE

Semester: 3

Lecture: 15 hrs; 1,4 ECTS credits

Practical course: 45 hrs; 4,1 ECTS credits

Total: 60 hrs; 5,5 ECTS credits

Exam: written and immanent examination character

Contents: The lecture deals with the basics of medical science (structure, research methods) followed by an introduction to Evidence Based Medicine. The practical imparts medical information research (literary research in particular) as well as an introduction to computer based learning. The compulsory optional part provides a first insight into scientific work: the student has to research literature, compile an annotated bibliography and compose as well as present an abstract on a concrete topic.

MODULE 8 A-LSUD 2 DIPLM M8**DISEASE, ORIGIN & SYMPTOMS****Semester:** 3**Lecture:** 87 hrs; 8 ECTS credits**Practical course:** 33 hrs; 3,0 ECTS credits**Total:** 120 hrs; 11 ECTS credits;**Exam:** written; part of SIP2

Contents: The basics of patho-morphological response forms (necrosis, inflammation, tumour), general infectology, mechanisms of unspecific and specific (immunologic) defence, genetic and gender specific factors of pathogenesis, causes and mechanisms of canceration, patho-genetic mechanisms within the formation of vascular-, clotting- and degenerative diseases, neurobiological basics as well as psychosocial factors of pathogenesis are discussed in the lecture. Practicals and seminars illustrate the contents of the abovementioned topics and allow insight into the methods and significance of applied diagnostic techniques. The patho-physiological principles of the development of clinical disease patterns are illustrated by means of prevalent or important examples.

MODULE 9 A-LSUD 2 DIPLM M9**MANIFESTATION AND PERCEPTION OF DISEASES, GENERAL PHARMACO-THERAPY****Semester:** 3**Lecture:** 67 hrs; 6,2 ECTS**Practical course:** 53 hrs; 4,9 ECTS credits**Total:** 120 hrs; 11,1 ECTS credits**Exam:** written; part of SIP2

Contents: Within the scope of a lecture and a seminar the somatic, mental, as well as gender specific causes and appearances of diseases are illustrated on the basis of prevalent, significant and exemplary patterns of disease. Furthermore, the principles of general pharmacotherapy are introduced. Other contents are prevention, diagnostics, and therapy of micro-biologic diseases.

LINE 4A A-LSUD 2 DIPLM L4A**MEDICAL INTERVIEW A****Semester:** 3**Practical course:** 15 hrs; 1,0 ECTS credits Exam: immanent examination character

Contents: In this practical the student gets to know and practise the underlying general, medical, biographic, familiar, psycho-social and gender specific aspects of medical interviews in instructed small group classes. Students practice the first medical interview with a patient. The principles of competent communication with patients about diagnostic and therapeutical steps are acquired.

LINE 5 A-LSUD 2 DIPLM L5**BASIC MEDICAL SKILLS****Semester:** 3**Practical course:** 15 hrs; 1,0 ECTS credits Exam: immanent examination character

Contents: The goal of the practical course is the standardised impartation of a clinical basic competence in medical skills (eg. taking blood samples, inserting a urinary catheter, etc.), as well as in hygienic behaviour and skills (hand hygiene, non-touch-technique etc.). The contents are taught and practised in small group lectures by means of simulation models.

LINE POL A-LSUD 2 DIPLM POL**PROBLEM-ORIENTED LEARNING****Semester:** 3**Practical course:** 30 hrs; 2,1 ECTS credits **Exam:** immanent examination character**Contents:** Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.**MODULE 10 A-LSUD 2 DIPLM M10****ENDOCRINOLOGY AND METABOLISM****Semester:** 4**Lecture:** 38 hrs; 3,5 ECTS credits**Practical course:** 8 hrs; 0,7 ECTS credits**Total:** 46 hrs; 4,2 ECTS credits**Exam:** written; part of SIP2**Contents:** The lecture introduces anatomic, histological, physiologic and biochemical basics followed by the discussion of prevalent diseases of the endocrine organs, disorders of the carbohydrate-, protein- and lipid metabolism as well as diagnostic and therapeutic measures. The contents of the lecture are discussed in more detail in the seminar.**MODULE 11 A-LSUD 2 DIPLM M11****CARDIOVASCULAR SYSTEM AND BLOOD****Semester:** 4**Lecture:** 58 hrs; 5,3 ECTS credits**Practical course:** 32 hrs; 2,9 ECTS credits**Total:** 90 hrs; 8,2 ECTS credits**Exam:** written; part of SIP2**Contents:** In the first part of the lecture the student is provided with basic knowledge about constitution, function and development of the cardiovascular as well as the haematopoietic system in connection with clinical problems and with regard to gender specific aspects. The second part introduces cardiovascular and blood diseases in synopsis of pathology and clinic, diagnostics, therapy, prevention and rehabilitation. The practical consists of medical-chemical and physical exercises as well as an ECG course. The seminar deals with pharmacology and pharmacotherapy of the cardiovascular and blood diseases.**MODULE 12 A-LSUD 2 DIPLM M12****RESPIRATORY SYSTEM****Semester:** 4**Lecture:** 36 hrs; 3,3 ECTS credits**Practical course:** 12 hrs; 1,1 ECTS credits**Total:** 48 hrs; 4,4 ECTS credits**Exam:** written; part of SIP2**Contents:** The goal of the lecture is the consolidation of physiological and patho-physiological basics of the respiratory tract considering gender specific aspects as well as the impartation of the most prevalent diseases of the upper and the lower respiratory tracts, the pathogenesis thereof (including psychosomatic causes), diagnostic and therapeutic possibilities.

MODULE 13 A-LSUD 3 DIPLM M13**NUTRITION AND DIGESTION****Semester:** 5**Lecture:** 45 hrs; 3,7 ECTS credits**Practical course:** 19 hrs; 1,5 ECTS credits**Total:** 64 hrs; 5,2 ECTS credits**Exam:** written; part of SIP3

Contents: The lecture deals with the anatomy, histology, physiology and pathology of the gastrointestinal tract including disorders and diseases of the oropharyngeal, esophageal, gastric-, intestinal-, hepatic, and pancreatic sphere. Causes, consequences and therapeutic measures in nutritional disturbances are discussed. The seminars and practicals serve as consolidation of the aspects of important and prevalent diseases of the gastro-intestinal tract and dietetics as gathered in the lecture – with special regard to gastro-intestinal diseases (diarrhoea, constipation, inflammable diseases), psychosomatic disorders, impact of nutrition on health resp. on course of the disease and nutrition disorders as cause of diseases. Furthermore, important diagnostic and therapeutic possibilities of intervention (e.g. endoscopic techniques) are introduced.

MODULE 14 A-LSUD 3 DIPLM M14**KIDNEY AND HOMEOSTASIS****Semester:** 5**Lecture:** 34 hrs; 2,8 ECTS credits**Practical course:** 14 hrs; 1,1 ECTS credits**Total:** 48 hrs; 3,9 ECTS credits**Exam:** written; part of SIP3

Contents: In the lecture and the practical the student learns about the development, anatomy, function and prevalent diseases of the kidney and the urinary tract collection system as well as the role of the kidney in water-electrolyte imbalances and disorders of the acid-base balance with regard to gender specific and psychosocial aspects.

Additionally, consequences of renal function disorders on the metabolism in the total organism are discussed.

MODULE 15 A-LSUD 3 DIPLM M15
SEXUALITY, REPRODUCTION, GRAVIDITY AND BIRTH**Semester:** 5**Lecture:** 50 hrs; 4,1 ECTS credits**Practical course:** 14 hrs; 1,1 ECTS credits**Total:** 64 hrs; 5,2 ECTS credits**Exam:** written; part of SIP3

Contents: The lecture introduces the anatomic, histological, physiologic, and biochemical basics of reproduction, the seminar addresses sexuality, ethics, psychosocial and forensic medical issues. In the practical, gravidity and birth problems are introduced and discussed in small groups.

MODULE 16 A-LSUD 3 DIPLM M16
INFANTS, CHILDHOOD & ADOLESCENCE**Semester:** 5**Lecture:** 65 hrs; 5,3 ECTS credits**Practical course:** 15 hrs; 1,2 ECTS credits**Total:** 80 hrs; 6,5 ECTS credits**Exam:** written; part of SIP3

Contents: In the lecture, the student is provided with the characteristics of diseases during childhood and adolescence including the physiological, biochemical, morphological, genetic, patho-physiological, psychosocial, and gender specific basics. These basics are discussed in more detail by means of representative examples taken from paediatric sub-specialities.

LINE 8B A-LSUD 2 DIPLM L8A
ORGAN MORPHOLOGY II**Practical course:** 44 hrs; 2,7 ECTS credits**Total:** 44 hrs; 2,7 ECTS credits**Exam:** immanent examination character

Contents: The range of module-overlapping lectures with immanent examination character aims at the establishment of a connection to the interpretation of anatomic conditions in a clinical-diagnostic context by means of practical dissection on a body in integration with diagnostic imaging techniques as well as at an understanding of clinically relevant topographic relations to the execution of surgical interventions.

After an introductory stage during the dissection process reference is also made to the organ systems which are dealt with in the parallel modules 13-15 and as well to the anatomical basics for the modules 19 and 21.

LINE 9A A-LSUD 3 DIPLM L9A
SPECIFIC EXAMINATION TECHNIQUES I**Semester:** 5**Practical course:** 15 hrs; 0,9 ECTS credits**Total:** 15 hrs; 0,9 ECTS credits**Exam:** immanent examination character

Contents: The practical imparts clinical skills and examination techniques in relation to the Modules of the study year.

LINE 10A A-LSUD 3 DIPLM L10A
RESUSCITATION TECHNIQUES I**Semester:** 5**Practical course:** 15 hrs; 0,9 ECTS credits**Total:** 15 hrs; 0,9 ECTS credits**Exam:** immanent examination character

Contents: In the practical - which is based on the First Aid course in the first stage of study - students get to practise in small groups enhanced resuscitation techniques and emergency care on manikins.

LINE CBL A-LSUD 3 DIPLM CBL**CASE-BASED LEARNING****Semester:** 5**Practical course:** 30 hrs; 1,8 ECTS credits

Contents: Goal of the course is the qualification of students to record and successfully treat clinical case histories. Contents are oriented on the modules held parallel to the respective CBL. Imparted knowledge is thereby deepened with the help of practical case studies. Students get to practice the making of a diagnosis as well as the principles of therapies. The course is held interactively under the instruction of clinicians from the respective clinical field. Students are introduced into clinical thinking and work. Gender-specific aspects are considered for the selection of case studies.

MODULE 17 A-LSUD 3 DIPLM M17**SPECIFIC STUDY MODULE 2 (SSM2):
METHODOLOGY OF MEDICAL SCIENCE****Semester:** 6**Lecture:** 12 hrs; 1 credit**Practical course:** 48 hrs; 3,9 ECTS credits**Total:** 60 hrs; 4,9 ECTS credits**Exam:** written and immanent examination character

Contents: Consists of a compulsory and an optional part. The compulsory part comprises a lecture and a seminar which imparts the statistical basics for the planning of scientific studies and the evaluation of projects; the role of random fluctuation, measuring errors and biological variability is also considered. International applicable standards in this domain are addressed with the help of examples. In the small group courses (practical and seminar) of the optional part the student gets to know the individual techniques of scientific work (laboratory, socio-scientific/psychological measuring methods). The application of the techniques focuses on a certain medical problem also considering methods of quality inspection and insurance.

MODULE 18 A-LSUD 3 DIPLM M18**SKIN AND SENSORY ORGANS"****Semester:** 6**Lecture:** 60 hrs; 4,9 ECTS credits**Practical course:** 20 hrs; 1,6 ECTS credits**Total:** 80 hrs; 6,5 ECTS credits**Exam:** written; part of SIP3

Contents: Comprises a lecture and a practical which introduce the anatomic, physiological and pathophysiological principles of the skin and sensory organs on the basis of prevalent diseases.

MODULE 19 A-LSUD 3 DIPLM M19**BRAIN AND NERVOUS SYSTEM****Semester:** 6**Lecture:** 97 hrs; 7,8 ECTS credits**Practical course:** 23 hrs; 1,8 ECTS credits**Total:** 120 hrs; 9,6 ECTS credits**Exam:** written; part of SIP3

MODULE 20 A-LSUD 4 DIPLM M20 PSYCHIC FUNCTIONS IN HEALTH AND DISEASE**Semester:** 7**Lecture:** 62 hrs; 5,8 ECTS credits**Practical course:** 38 hrs; 3,6 ECTS credits**Total:** 100 hrs; 9,4 ECTS credits**Exam:** written; part of SIP4

Contents: Goal of the lecture is the presentation of basics for the evaluation of the normal and abnormal psychic functions as well as for the continuity between normality and pathology. For this purpose the most important psychological schools of thought are introduced (e.g. the psychodynamic, humanistic and didactic theoretical) and the significance of genetic, biological, gender specific and social factors (including social-cultural contexts) are discussed. Furthermore, the principles of psychopathological diagnostics are presented. In the seminar, the students are provided with psychiatric diagnostic schemes as well as with the basic principles of the exploration technique. With the help of casuistics (audio- and video presentations) the students practice the perception of the (affective) involvement of patients.

MODULE 21 A-LSUD 4 DIPLM M21**LOCOMOTION, PERFORMANCE AND PAIN****Semester:** 7**Lecture:** 64 hrs; 6 ECTS credits**Practical course:** 16 hrs; 1,5 ECTS credits**Total:** 80hrs; 7,5 ECTS credits;**Exam:** written; part of SIP4

Contents: The students learn about the specific, normal and pathological processes of muscular and skeletal system with regard to biomechanical, anatomic, physiological, and gender specific basics as well as about the principles of performance physiology and training theory.

The course introduces physiological stress and resilience of the muscular skeletal system including resulting degenerative diseases as well as soft tissue and bone injuries, tumours, vascular bone diseases, rheumatic systemic diseases, metabolic osteopathy and infections and inflammations syndromes and as well the principles of pain emergence and treatment are presented. In addition to diagnostics and therapy, psychic, social and gender specific aspects including principles of rehabilitation are discussed.

Two thirds of the knowledge transfer takes place in the form of lectures, the remaining part in seminars and practicals. Instructed studies with the help of digital tuition materials complete the course offerings.

MODULE 22 A-LSUD 4 DIPLM M22**OCCUPATIONAL & ENVIRONMENTAL DISEASES, FORENSIC MEDICINE, PUBLIC HEALTH AND RADIOPROTECTION"****Semester:** 7**Lecture:** 62 hrs; 5,8 ECTS credits**Practical course:** 18 hrs; 1,7 ECTS credits**Total:** 80 hrs; 7,5 ECTS credits**Exam:** written; part of SIP4

Contents: In a lecture, a seminar and a practical the student is provided with the essential basic principles of preventive medicine incl. gender specific aspects. Moreover, the courses give an understanding of the fields of work of the individual organisational units as well as of the institutions of the public health system to the doctors-to-be. Furthermore, the students acquire the principles of radiation protection relevant for the medical profession (ionising, non-ionising radiation, laser radiation, radiation protection for patients and occupationally exposed people, legal foundation), of pathological strain reactions and of health care law for their medical vocation.

LINE 12 **A-LSUD 4 DIPLM L12****SPECIFIC DIAGNOSTIC SKILLS****Semester:** 7**Practical course:** 15 hrs; 1,1 ECTS credits**Total:** 15 hrs; 1,1 ECTS credits**Exam:** immanent examination character

Contents: Aim is to deepen skills within the scope of laboratory medicine, radiology, nuclear medicine, clinical pathology, microbiology, virology, and blood group serology, all of which being precondition for the clinical practicals of the third stage of study. In addition to indication, students practise principles of apparative diagnostics and posing clinical diagnoses on the basis of classic constellations of diagnostic findings.

LINE 9A **A-LSUD 4 DIPLM L9A****SPECIFIC EXAMINATION TECHNIQUES II****Semester:** 7**Practical course:** 7 hrs; 0,5 ECTS credits**Total:** 7 hrs; 0,5 ECTS credits**Exam:** immanent examination character

Contents: In this practical the student is provided with clinical skills and medical examination techniques with regard to the Modules of the study year.

LINE 13 **A-LSUD 4 DIPLM L15****BASICS IN SONOGRAPHY****Semester:** 7**Practical course:** 7 hrs; 0,5 ECTS credits**Total:** 7 hrs; 0,5 ECTS credits;**Exam:** immanent examination character

Contents: In this course students learn to determine the most important indications in context with other imaging procedures, the basics of examination techniques as well as the sonographic basic symptoms in context with normal anatomy. Courses are based on case studies and practical exercises with the help of exemplary picture documentation equipment. Goal of the practical is the exemplary utilisation of this diagnosis method including the training of the formulation of clinical questions within the scope of interdisciplinary cooperation, the training of an anatomic spatial sense, the understanding of interaction between sound waves and tissue as well as an estimation of one's practical abilities in examination techniques.

LINE POL **A-LSUD 4 DIPLM POL****PROBLEM ORIENTED LEARNING****Semester:** 7**Practical course:** 30 hrs; 2,1 ECTS credits**Total:** 30 hrs; 2,1 ECTS credits;**Exam:** immanent examination character

Contents: This course includes problem-based small group discussions and is held in the form of a seminar. It aims at the qualification of students to comprehend and successfully accomplish complex practical tasks. The small group lectures are held by an instructor. POL is based on a case study or a

practical example such as a case history or a clinical presentation based on the list of symptoms and diagnosis. Gender specific aspects are considered for the choice of case studies.

MODULE 23 **A-LSUD 4 DIPLM M23**
ETHICS, CHRONIC DISEASES, HANDICAP AND GERONTOLOGY

Semester: 8

Lecture: 50 hrs; 4,7 ECTS credits

Practical course: 30 hrs; 2,8 ECTS credits

Total: 80 hrs; 7,5 ECTS credits

Exam: written; part of SIP4

Contents: The lecture deals with the problems of elderly, chronically ill or disabled people, their theoretic and gender specific basics, prevention, management, care and consequences for patient, family and doctor. The clinical practical skills which are an indispensable precondition for the training of the third stage of study are imparted by means of clinical case studies in a seminar and in a practical.

MODULE 24 **A-LSUD 4 DIPLM M24**
SPECIFIC STUDY MODULE 3 (SSM 3):

PROJECT STUDIES

Semester: 8

Lecture: 12 hrs; 1,1 ECTS credits

Practical course: 66 hrs; 6,2 ECTS credits **Exam:** written and immanent examination character

Total: 78 hrs; 7,3 ECTS credits

Contents: Consists of an obligatory and an obligatory optional part. The obligatory part „Methodology of Medical Sciences“ introduces within a lecture and a practical medical informatics, evidence based medicine, quality assurance and data protection as well as biosignal recording, data processing, the composition and presentation of scientific studies. The obligatory optional part “project study” comprises a practical which deals with the problem of a selected topic and the accomplishment of a scientific study, as well as the gathering, analysis, interpretation and discussion of data. Finally, the student presents his/her project either in the form of a poster presentation or a short lecture.

LINE 9C **A-LSUD 4 DIPLM L11C**
SPECIFIC EXAMINATION TECHNIQUES III

Semester: 8

Practical course: 15 hrs; 1,1 ECTS credits

Total: 15 hrs; 1,1 ECTS credits;

Exam: immanent examination character

Contents: In this practical the student is provided with clinical skills and medical examination techniques with regard to the Modules of the study year.

LINE 10B **A-LSUD 4 DIPLM L10B**
RESUSCITATION TECHNIQUES II

Semester: 8

Practical course: 7 hrs; 0,5 ECTS credits

Total: 7 hrs; 0,5 ECTS credits;

Exam: immanent examination character

Contents: The basic skills as acquired in the 5th semester line are deepened in a training area set up for this purpose and in a practical.

LINE 14 **A-LSUD 4 DIPLM L14**
CLINICAL PRACTICAL PROPAEDEUTICS

Semester: 8

Practical course: 30 hrs; 2,1 ECTS credits

Contents: In this practical the clinical abilities and skills of communication, diagnosis, therapy, reflection and patient management are practised and examined as a conclusion of the practical courses of the first and second stage of studies. Learning targets have been adjusted to the contents of prior content-related courses. The line element serves as preparation for the clinical practicals of the third stage of studies.

4.3 The Third Stage of Study

The third stage of Study is divided into blocks ("Tertiale").
One block ("Tertial") is a third of one term of 15 weeks.

A-LSUD 5 DIPLM INTM
INTERNAL MEDICINE

Semester: 9

Weeks: 10

Practical course: 93 hrs; 6,4 ECTS credits

Clinical Practical: 132 hrs; 9,1 ECTS credits

Total: 225 hrs; 15,5 ECTS credits;

Exam: written; part of SIP5

Contents: The practical training in this Block comprises three elements: (1) practical activities on patients assigned to the students (anamnesis, status, Dekurs, medical report), (2) acquisition of diagnostic and therapeutic skills on exemplary cases in small group lectures (8 – 9 students per group), (3) acquisition of knowledge about important diagnostic and therapeutic specific methodology (by observation and explanation). The Block Internal Medicine takes place at the University Clinic Department of Internal Medicine.

**A-LSUD 5 DIPLM EMM
EMERGENCY MEDICINE & INTENSIVE CARE****Semester:** 9**Weeks:** 5**Lecture:** 20 hrs; 1,4 ECTS credits**Practical course:** 25 hrs; 1,7 ECTS credits**Clinical Practical:** 60 hrs; 4,1 ECTS credits**Total:** 105 hrs; 7,3 ECTS credits**Exam:** written; part of SIP5

Contents: The clinical practical in emergency and intensive care management is held in the form of instructed classes at one of the departments of Emergency Medicine & Intensive Care at the AKH. The lecture deals with relevant issues of emergency and intensive care. In the practical, the student systemically practices manual skills of emergency and intensive medicine.

**LINE 15A A-LSUD 5 DIPLM L15A
CLINICAL DIAGNOSTICS A****Semester:** 9-10**Practical course:** 45 hrs; 2,3 ECTS credits**Total:** 45 hrs; 2,3 ECTS credits**Exam:** immanent examination character

Contents: The seminar and the practical deal with professional questions from fields significant for clinical diagnostics such as laboratory medicine, radiology, nuclear medicine, clinical pathology, microbiology, virology, blood group serology involving the students into the clinical routine operations.

**LINE 16A A-LSUD 5 DIPLM L16A
GENERAL PRACTICE A****Semester:** 9+10**Practical course:** 22,5 hrs; 1,1 ECTS credits**Total:** 22,5 hrs; 1,2 ECTS credits**Exam:** immanent examination character

Contents: This line element, which complements education within the clinical disciplines of the blocks, highlights symptoms and diagnoses from the perspective of the field of general medicine – and preferably also considers factors from other disciplines. With regard to the a general practitioner's daily routine of prevailing health problems and disease patterns and also considering gender specific, psychosocial and economic factors, the goal is to make aware of a doctor-patient relationship and to get to know the differences and similarities of intensive care management at a general practitioner and tertiary care in a university hospital.

**A-LSUD 5 DIPLM SURG
SURGERY****Semester:** 10**Weeks:** 10**Lecture:** 80 hrs; 5,5 ECTS credits**Clinical Practical:** 130 hrs; 9 ECTS credits**Total:** 210 hrs; 14,5 ECTS credits**Exam:** written; part of SIP5

Contents: The clinical practical takes place in the form of bedside teaching in General Surgery and Accident Surgery at the ambulances and departments of the University Clinic as well as in the ambulances and departments of recognised university teaching hospitals and in selected ambulances and departments of Cardiothoracic Surgery, Plastic Surgery, Paediatric Surgery, Urology, Orthopaedics, Maxillofacial Surgery and Neurosurgery. Goal is the discussion of typical disease patterns and symptoms on the basis of patient cases as well as the presentation of diagnostic and surgical therapeutic techniques involving the students into the clinical routine operations. In the lecture, the student is provided with the relevant surgical symptoms and disease patterns, as well as the diagnosis and therapy thereof. The lecture is organised and held by the above-named university clinics.

**A-LSUD 5 DIPLM AMSC1
APPLIED MEDICAL SCIENCE I**

Semester: 10

Weeks: 5

Lecture: 20 hrs; 1,4 ECTS credits

Seminar: 70 hrs; 4,8 ECTS credits

Total: 90 hrs; 6,2 ECTS credits;

Exam: immanent examination character

Contents: The students have to attend further compulsory optional courses to the extent of 8 hours.

**A-LSUD 6 DIPLM NEUR
NEUROLOGY**

Semester: 11

Weeks: 5

Lecture: 20 hrs; 1,4 ECTS credits

Practical course: 35 hrs; 2,4 ECTS credits

Clinical Practical: 50 hrs; 3,4 ECTS credits

Total: 105 hrs; 7,2 ECTS credits

Exam: written; part of SIP6

Contents: The student is provided with knowledge about specific neurological disease patterns in a lecture and a seminar. The basics as acquired in Module 20 are deepened with more detailed knowledge about neurological disease patterns and their aetiology, pathogenesis, and therapy. In the practical the student practices in the more depth the knowledge and skills as acquired in the line element „Neurostatus“ (6th semester) as well as the establishment of an anamnesis under consideration of neurological aspects.

During the clinical practical the students learn to apply their clinical knowledge and clinical skills through direct contact with patients. By active involvement of the students at the divisions and ambulances of the University Clinical Department for Neurology and corresponding clinical departments as approved by the university they are provided with an overview of neurological diagnostic and therapeutic methodology.

A-LSUD 6 DIPLM PSYC**PSYCHIATRY****Semester:** 11**Weeks:** 5**Lecture:** 20 hrs; 1,4 ECTS credits**Practical course:** 40 hrs; 2,7 ECTS credits**Clinical Practical:** 45 hrs; 3,1 ECTS credits**Total:** 105 hrs; 7,2 ECTS credits**Exam:** written; part of SIP6

Contents: The lecture Psychiatry imparts systemically the basic knowledge of psychiatry. The students are familiarized with knowledge about psychiatric examinations, basics on disease patterns and the aetiology and pathogenesis thereof, as well as on therapy and some special subjects of psychiatry. In seminars, students are provided with knowledge about important, specific psychiatric disease patterns. In the practical, students acquire knowledge and skills within the management of relevant psychiatric problems. The skills and knowledge imparted in the practical are essential as professional preparatory training. Psychiatric disease patterns, the contact with psychiatric patients and psychiatry therapy are introduced. Additionally, students also get to know various institutions approved by the university.

A-LSUD 6 DIPLM PED**PAEDIATRICS****Semester:** 11**Weeks:** 5**Lecture:** 30 hrs; 2,0 ECTS credits**Practical course:** 30 hrs; 2,0 ECTS credits**Clinical Practical:** 45 hrs; 3,1 ECTS credits**Total:** 105 hrs; 7,2 ECTS credits;**Exam:** written; part of SIP6

Contents: In the clinical practical students are provided with the basic clinical skills of paediatrics at divisions and ambulances of the University Clinic of Paediatrics as well as at departments approved by the university. The establishment of a paediatric anamnesis with special regard to indirect anamnesis (discussion of anamnesis with parents) and the determination of a paediatric status praesens is practised by direct patient contact. Moreover, the students are made familiar with diagnostic and therapeutical methodology by active involvement into the routine operations. In the lecture, the students learn about diagnostics and therapy of prevalent, important and exemplary disease patterns in different stages of life. The seminar discusses specific paediatric problems in small group lectures.

LINE 15B**A-LSUD 6 DIPLM 15B****CLINICAL DIAGNOSTICS B****Semester:** 9-10**Practical course:** 15 hrs; 0,8 ECTS credits**Total:** 15 hrs; 0,8 ECTS credits**Exam:** immanent examination character

Contents: The seminar and the practical deal with professional questions from fields significant for clinical diagnostics such as laboratory medicine, radiology, nuclear medicine, clinical pathology, microbiology, virology, blood group serology involving the students into the clinical routine operations.

LINE 16B **A-LSUD 6 DIPLM L16B****GENERAL PRACTICE B****Semester:** 11+12**Practical course:** 22,5 hrs; 1,2 ECTS credits**Total:** 22,5 hrs; 1,2 ECTS credits;**Exam:** immanent examination character

Contents: This line element, which complements education within the clinical disciplines of the blocks, highlights symptoms and diagnoses from the perspective of the field of general medicine – and preferably also considers factors from other disciplines. With regard to the a general practitioner's daily routine of prevailing health problems and disease patterns and also considering gender specific, psychosocial and economic factors, the goal is to make aware of a doctor-patient relationship and to get to know the differences and similarities of intensive care management at a general practitioner and tertiary care in a university hospital.

LINE 17 **A-LSUD 6 DIPLM L17****INTERDISCIPLINARY PATIENTS MANAGEMENT****Semester:** 11+12**Practical course:** 60 hrs; 3,1 ECTS credits**Total:** 60 hrs; 3,1 ECTS credits**Exam:** immanent examination character

Contents: The seminar and the practical deal with typical disease patterns, complexes of symptoms, and professional issues from the fields of ethics in medicine, geriatrics, forensic medicine, hospital hygiene, palliative medicine physical medicine, psychosomatics, radiation therapy (radio-oncology) and social medicine, as well as diagnostic and therapeutic aspects.

A-LSUD 6 DIPLM GYN**GYNECOLOGY & OBSTETRICS****Semester:** 12**Weeks:** 5**Practical course:** 45 hrs; 3,1 ECTS credits**Clinical Practical:** 60 hrs; 4,1 ECTS credits**Total:** 105 hrs; 7,2 ECTS credits**Exam:** written; part of SIP6

Contents: In the clinical practical students are provided with the basic clinical skills of Gynecology & Obstetrics at divisions and ambulances of the University Clinic of Gynecology & Obstetrics as well as at clinical departments approved by the university. Gynaecologic anamnesis and the determination of gynaecologic status praesens is practised by direct patient contact. Moreover, the students are made familiar with diagnostic and therapeutical methodology by active involvement into the routine operations. In the seminar, the students learn about diagnostics and therapy of prevalent life-threatening gynaecologic disease patterns, about prenatal diagnostics and pregnancy precaution and about attending normal and anomalous birth.

OPHTHAMOLOGY & OTOLARYNGOLOGY**A-LSUD 6 DIPLM OPH****OPHTHAMOLOGY****Semester:** 12**Weeks:** 2,5**Lecture:** 15 hrs; 1,0 ECTS credits**Practical course:** 15 hrs; 1,0 credit**Clinical Practical:** 30 hrs; 2,0 ECTS credits**Total:** 60 hrs; 4,1 ECTS credits**Exam:** written; part of SIP6

Contents: In the seminar and the lecture the students are provided with clinical knowledge about therapeutical and diagnostic methodology in ophthalmology as well as about differential diagnosis of prevalent, exigent and exemplary ophthalmologic diseases. They also acquire the management of ophthalmologic emergency cases. In the clinical practical students learn ophthalmologic anamnesis as well as the examination of the eye by direct patient contact at divisions and ambulances of the University Clinic of Ophthalmology as well as at clinical departments approved by the university.

A-LSUD 6 DIPLM ORL**OTOLARYNGOLOGY****Semester:** 12**Weeks:** 2,5**Lecture:** 20 hrs; 1,4 ECTS credits**Practical course:** 15 hrs; 1,0 ECTS credits**Clinical Practical:** 25 hrs; 1,7 ECTS credits**Total:** 60 hrs; 4,1 ECTS credits**Exam:** written; part of SIP6

Contents: The lecture of the Block otolaryngology discusses specific disease patterns, differential diagnoses including their patho-morphological and psychological basics, as well as their prevention and therapy. In the practical students acquire skills for the determination of an otolaryngologic status. Functional testing is practised in the seminar. The clinical practical deals with direct patient contact.

DERMATOLOGY & APPLIED MEDICAL SCIENCE II**A-LSUD 6 DIPLM DERM****DERMATOLOGY****Semester:** 12**Weeks:** 3**Lecture:** 15 hrs; 1,0 ECTS credits**Practical course:** 35 hrs; 2,4 ECTS credits**Clinical Practical:** 25 hrs; 1,7 ECTS credits**Total:** 75 hrs; 5,1 ECTS credits**Exam:** written; part of SIP6

Contents: In the clinical practical, students participate in conversations with patients/relatives, in disease diagnoses and therapy at divisions and ambulances of the University Clinic of Dermatology as well as at dermatologic divisions and at any licensed doctor's practice in Vienna as approved by the university. In the lecture the students receive a systematic overview about praxis-relevant disease

patterns of dermatology and venerology. In the seminar and the practical, prevalent clinical images of dermatology and venerology are discussed in an exemplary way.

APPLIED MEDICAL SCIENCE II (2 WEEKS)

A-LSUD 6 DIPLM AMSC2

Semester: 12

Weeks: 2

Lecture: 5 hrs; 0,3 ECTS credits

Seminar: 25 hrs; 1,7 ECTS credits

Total: 30 hrs; 2,0 ECTS credits

Exam: immanent examination character

Contents:

The students have to attend further compulsory optional courses to the extent of 8 hours.

CLERKSHIP

Within the framework of the medical studies, 18 weeks of clinical clerkship have to be served unless otherwise ruled by the articles of the university.

A clinical clerkship must have a minimum duration of 2 weeks. A minimum of 4 weeks have to be served at a division of Internal Medicine. 4 further weeks have to be fulfilled at an institution of Primary Care (approved practices for general medicine and/or approved institutions for primary care at hospitals). At least 4 weeks of obligatory clerkship have to be served at an institution of Surgery, 2 weeks at an institution of Pathology.

The clinical clerkship can only be acknowledged if served at institutions following the regulations approved by of the committee of study affairs („structured clerkship“) and if the corresponding courses are approved by the committee of study affairs.

Furthermore, the students have to write a clinical logbook, where they document chronologically on time, locality, tutor, progression, activities and acquired skills and knowledge.

4.4 Equivalence Table

| Subject | Curriculum N202 |
|---|---|
| Medical Psychology | Module 1 |
| Functional Pathology | Module 5 |
| Functional Pathologie & General Pathology | Module 8 |
| Functional Pathologie & General Pathology, Pharmacology & Toxicology, Hygiene & Microbiology, preventive medicine | Module 9 |
| Anatomy and Histology | Modules 10, 11, 12, 13, 14, 15, 18, 19 und 21 |
| Internal Medicine & Surgery | Modules 10-14, 21 Line-Elements of the 2. Study Year |
| Internal Medicine | Module Internal Medicine |
| Surgery | Module Surgery |
| Gynecology & Obstetrics | Module 15, Line Specific Examination Techniques Module Gynecology & Obstetrics |
| Pediatrics | Module 16, Module Pediatrics |
| Ophthalmology, Otorhinolaryngology, Dermatology & Venerology | Module 18 |
| Ophthalmology | Module Ophthalmology |
| Otorhinolaryngology | Module Otorhinolaryngology |
| Dermatology & Venerology | Module Dermatology |
| Neurology | Module 19, Line Neurological Status, Module Neurology |
| Psychiatry | Module 20, Module Psychiatry |
| Social Medicine & Forensic Medicine | Module 6 & 22 |

5 THE DIPLOMA STUDIES OF DENTISTRY N203

THE VIENNA MEDICAL CURRICULUM is based on integration of non-clinical and clinical learning: in every single **learning unit (Module)** students will learn about structure and function, as well as the most important and most frequent diseases and therapies. In addition there are courses called "**Lines**" which take place throughout the semester. They establish the connection to clinical work since they focus on clinical skills.

Problem orientated learning (POL) and **Case based learning (CBL)** supplement other instructional methods.

The third stage of study (semester 9-12) emphasises intensive clinical training.

The practice-orientation is the most outstanding feature of the Viennese Medical Curriculum. The first patient contact takes place during the third semester.

In this curriculum there are different kinds of examinations:

Practical courses and seminars with immanent examination character (assessment on the basis of permanent written or oral contributions within the framework of the course.

FIPs (FORMATIVE INTEGRATED EXAMS) at the end of each winter semester: this multiple choice exam gives feedback to the students about their learning performance.

SIPs (SUMMATIVE INTEGRATED EXAMS) at the end of each academic year: here the course content of the whole academic year is examined with multiple choice questions. This exam must be passed to receive ECTS credits for the course work of the preceding academic year.

For exchange students who only come for the winter term special arrangements will be made for an appropriate examination.

The duration of the diploma studies of medicine is 12 semesters:

The **first stage of study** covers 2 semesters.

The **second stage of study** covers 6 semesters.

The **third stage of study** covers 4 semesters.

As a graduation requirement students are required to write a diploma thesis. The modules 7, 17 and 24 focus on scientific training and enable students to perform the research for their thesis.

In addition, students have to take a series of **clinical clerkships** for a total of 18 weeks.

| | | | | | | | | | | | | | | | |
|--|--|--|--|---|--|---------------|--|--|--|--|--|--|--|---|--|
| Module 1 Health and Diseases (3) | | Module 2 The Human Body (6) | | Module 3 From Molecule to Cell (6) | | FIP1 | | Module 4 Functional Systems and Biological Regulation (5) | | Module 5 Genetics, Molecular Environment, Family & Cellular Communication (3) | | Module 6 Environment, Family & Society (3) | | SIP1 | |
| Social Skills First Aid | | | | | | | | | | | | | | | |
| Health Assessment | | | | | | | | | | | | | | | |
| Module 7 (SSM 1) Science & Medicine (3) | | Module 8 Disease, Origin & Symptoms (6) | | Module 9 Disease, Manifestation & Perception, General Pharmacotherapy (6) | | FIP2 | | Module 10 Endocrinology and Metabolism (3) | | Module 11 Cardiovascular System and Blood (5,5) | | Module 12 Respiratory System (3) | | SIP2 | |
| Basic Medical Skills, Medical Interview Case based Learning (GBL), Organomorphology II | | | | | | | | | | | | | | | |
| Physical Examination Techniques, Propedeutic in Clerkship Case based Learning (GBL), Organomorphology I | | | | | | | | | | | | | | | |
| Module Z-1 Masticatory Organs & Musculoskeletal System Practical: Histologic Pathology / Ergonomics & Training | | Module Z-2 Oral Pathology & Internal Organs Practical: ENT / Oral Pathology | | Module Z-3 Brain, Sensory Organs & Pain Practical: Neurological Status | | Z-SIP3 | | SSM 2 Methodology of Medical Science | | Dental Propedeutics 2 Practical: Occlusion / Anatomy of the Head-Neck-Region and Exodontia | | Dental Propedeutics 2 | | | |
| Handicapped Persons I | | | | | | | | | | | | | | | |
| Module Z-5 Periodontology & Prophylaxis Practical: Periodontology & Prophylaxis | | Module Z-4 Cariology & Dental Filling Therapy Practical: Cariology & Dental Filling Therapy | | Module Z-6 Conservative Dentistry Practical: Conservative Dentistry | | Z-SIP4 | | Module Z-7 Prosthodontics Practical: Prosthodontics | | Module Z-8 Oral Surgery Practical: Oral Surgery | | Module Z-9 Orthodontics Practical: Orthodontics | | Dental Radiology Practical: Radiology, Radio Protection & Diagnostics | |
| Handicapped Persons II | | | | | | | | | | | | | | | |
| Dental Clinical Practical Dept. for Conservative Dentistry and Dept. for Periodontology & Prophylaxis (120d), Dept. for Orthodontics | | | | | | | | | | | | | | | |
| Emergency Medicine Dental Extractions on Patients Assistances during the Dental Clinical Practical | | | | | | | | | | | | | | | |
| Module Z-SIP6 | | M.-K.P | | | | | | | | | | | | | |
| Dental Clinical Practical Dept. for Conservative Dentistry and Dept. for Periodontology & Prophylaxis (120 d), Dept. for Prosthodontics (60 d), Dept. for Orthodontics (45 d), Dept. for Oral Surgery (45 d) and Ambulance (45 d) | | | | | | | | | | | | | | | |
| Emergency Medicine Refresher | | | | | | | | | | | | | | | |
| Practical: Maxillo-facial Surgery (11. or 12. term) Legal, Ethic & Economic Fundamentals | | | | | | | | | | | | | | | |

| I. Stage of Study (2 terms) | | | | |
|---|----------------------|--------------|-----------------------|-------------|
| Semester 1 (Winter Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Health and Diseases | A-LSUD 1 DIPLM M1 | 4,7 | 1,6 | 6,3 |
| The Human Body | A-LSUD 1 DIPLM M2 | 10,4 | 1,2 | 11,6 |
| From Molecule to Cell | A-LSUD 1 DIPLM M3 | 9,0 | 2,5 | 11,5 |
| Social Skills | A-LSUD 1 DIPLM L1 | | 2,9 | 2,9 |
| First Aid | A-LSUD 1 DIPLM L2 | | 1,1 | 1,1 |
| Optional Subjects | A-LSUD 1 DIPLM OPT1 | | | 2,0 |
| | | | | 35,4 |
| Semester 2 (Summer Term) | | | | |
| Functional Systems and Biological Regulation | A-LSUD 1 DIPLM M4 | 8,6 | 1,4 | 10,0 |
| Genetics, Molecular & Cellular Communication | A-LSUD 1 DIPLM M5 | 4,0 | 1,7 | 5,7 |
| Environment, Family & Society | A-LSUD 1 DIPLM M6 | 4,6 | 1,2 | 5,8 |
| Health Assessment | A-LSUD 1 DIPLM L3 | | 1,1 | 1,1 |
| Optional Subjects | A-LSUD 1 DIPLM OPT2 | | | 2,0 |
| | | | | 24,6 |
| per anno | | | | 60 |
| II. Stage of Study (4 terms) | | | | |
| Semester 3 (Winter Term) | | | | |
| Science & Medicine (SSM I) | A-LSUD 2 DIPLM M7 | 1,4 | 4,1 | 5,5 |
| Disease, Origin & Symptoms | A-LSUD 2 DIPLM M8 | 8 | 3 | 11 |
| Disease, Manifestation & Perception & General Pharmacotherapy | A-LSUD 2 DIPLM M9 | 6,2 | 4,9 | 11,1 |
| Medical Interview | A-LSUD 2 DIPLM L4 | | 1,0 | 1,0 |
| Basic Medical Skills | A-LSUD 2 DIPLM L5 | | 1,0 | 1,0 |
| Problem oriented learning (POL) | A-LSUD 2 DIPLM POL | | 2,1 | 2,1 |
| Optional Subjects | A-LSUD 2 DIPLM OPT3 | | | 2,0 |
| Dental Propedeutics I | A-LSUD 2 DENTM PR0P1 | 4,2 | | 4,2 |
| Semester 4 (Summer Term) | | | | |
| Endocrinology and Metabolism | A-LSUD 2 DIPLM M10 | 3,5 | 0,7 | 4,2 |
| Cardiovascular System and Blood | A-LSUD 2 DIPLM M11 | 5,3 | 2,9 | 8,2 |
| Respiratory System | A-LSUD 2 DIPLM M12 | 3,3 | 1,1 | 4,4 |
| Physical examination techniques | A-LSUD 2 DIPLM L6 | | 1,0 | 1,0 |
| Propedeutic in Clerkship | A-LSUD 2 DIPLM L7 | | 1,0 | 1,0 |
| Organmorphology I | A-LSUD 2 DIPLM L8A | | 3,3 | 3,3 |
| Case Based Learning (CBL) | A-LSUD 2 DIPLM CBL | | 2,1 | 2,1 |
| Optional Subjects | A-LSUD 2 DIPLM OPT4 | | 2,0 | 2,0 |
| per anno | | | | 63,9 |
| Semester 5 (Winter Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Masticatory Organs & Musculoskeletal System | A-LSUD 3 DENTM Z1 | 6,9 | 1,3 | 8,2 |
| Oral Pathology & Internal Organs | A-LSUD 3 DENTM Z2 | 6,9 | 3,5 | 10,4 |
| Brain, Sensory Organs & Pain | A-LSUD 3 DENTM Z3 | 6,4 | 0,4 | 6,8 |
| Handicapped Persons I | A-LSUD 3 DENTM L8B | | 0,5 | 0,5 |
| Optional Subjects | A-LSUD 3 DIPLM OPT5 | | | 6,3 |
| Semester 6 (Summer Term) | | | | |
| Methodology of Medical Science - SSM2 | A-LSUD 3 DENTM SSM2 | 0,8 | 4,1 | 4,9 |
| Dental Propedeutics II | A-LSUD 3 DENTM PR0P2 | 12,8 | | 12,8 |
| Occlusion I | A-LSUD 3 DENTM OC1 | | 4,6 | 4,6 |
| Occlusion II | A-LSUD 3 DENTM OC2 | | 0,9 | 0,9 |
| Anatomy of the Head-Neck-Region and Exodontia | A-LSUD 3 DENTM HNR | | 6,4 | 6,4 |
| per anno | | | | 61,8 |

| III. Stage of Study (6 Semesters) | | | | |
|--|----------------------|--------------|-----------------------|-------------|
| Semester 7 (Winter Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Cariology & Dental Filling Therapy | A-LSUD 4 DENTM Z4 | 2,3 | 5,1 | 7,4 |
| Periodontology & Prophylaxis | A-LSUD 4 DENTM Z5 | 2,3 | 4,6 | 6,9 |
| Conservative Dentistry | A-LSUD 4 DENTM Z6 | 3,9 | 9 | 12,9 |
| Handicapped Persons II | A-LSUD 4 DENTM L8C | | 0,3 | 0,3 |
| Semester 8 (Summer Term) | | | | |
| Prostodontics | A-LSUD 4 DENTM Z7 | 1,7 | 4,1 | 5,8 |
| Oral Surgery | A-LSUD 4 DENTM Z8 | 3 | 6,8 | 9,8 |
| Orthodontics | A-LSUD 4 DENTM Z9 | 2,7 | 4,4 | 7,1 |
| Dental Radiology, Radio Protection & Diagnostics Seminar | A-LSUD 4 DENTM RADSE | 2,8 | 1,1 | 3,9 |
| Dental Radiology, Radio Protection & Diagnostics Practical | A-LSUD 4 DENTM RADPR | | 1,1 | 1,1 |
| Thesis Seminar A | A-LSUD 4 DENTM-THSA | | | 6 |
| per anno | | | | 61,2 |
| Semester 9 (Winter Term) | | | | |
| Module | Code / Year | ECTS-Credits | | |
| | | Lecture | Practical/ Seminar | Total |
| Emergency Medicine | A-LSUD 5 DENTM EM | 0,4 | 1,1 | 1,5 |
| Dental Clinical Practical I (18 weeks) | A-LSUD 5 DENTM DCPR1 | | 1,3/week | 24 |
| Assistances during the Dental Clinical Practical | A-LSUD 5 DENTM L9 | | 7,3 | 7,3 |
| Dental Extractions on Patients. | A-LSUD 5 DENTM DEP | | 0,3 | 0,3 |
| Semester 10 (Summer Term) | | | | |
| Dental Clinical Practical II(18 weeks) | A-LSUD 5 DENTM DCPR2 | | 1,3/week | 24 |
| Thesis Seminar B | A-LSUD 5 DENTM-THSB | | | 6 |
| per anno | | | | 63,1 |
| Semester 11 (Winter Term) | | | | |
| Dental Clinical Practical III (18 weeks) | A-LSUD 6 DENTM DCPR3 | | 1,3/week | 24 |
| Thesis Seminar C | A-LSUD 6 DENTM-THSC | | | 3 |
| Semester 12 (Summer Term) | | | | |
| Emergency Medicine Refresher | A-LSUD 6 DENTM EMR | | 1,1 | 1,1 |
| Maxillo-facial Surgery | A-LSUD 6 DENTM MFS | | 5,6 | 5,6 |
| Dental CLinical Pracitcal IV (18 weeks) | A-LSUD 6 DENTM DCPR4 | | 1,3/week | 24 |
| Legal, Ethic & Economic Fundamentals | A-LSUD 6 DENTM LEEF | 2,4 | | 2,4 |
| Thesis Seminar D | A-LSUD 6 DENTM-THSB | | | 3 |
| per anno | | | | 63,1 |

5.1 The First Stage of Study

The first two semesters of the first stage of study comprise compulsory lectures to the extent of 41,4 hours. Students have to attend the following lectures, seminars and practicals:

MODULE 1 A-LSUD 1 DIPLM M1 HEALTH AND DISEASES

Semester: 1

Lecture: 49 hrs; 4,7 ECTS credits

Practical course: 17 hrs; 1,6 ECTS credits

Total: 66 hrs; 6,3 ECTS credits

Exam: written; part of SIP1

Contents: The lectures and the small group classes introduce students to main focus topics of the medical studies as a first orientation. Topics of general relevance (such as gender specific issues, medical ethics, medical law, proper conduct with patients, etc.) are deepened and rendered more practice-related in instructed classes. Furthermore, students are prepared for the main topics of the modules of the first study year.

MODULE 2 A-LSUD 1 DIPLM M2 THE HUMAN BODY

Semester: 1

Lecture: 108 hrs; 10,4 ECTS credits

Practical course: 12 hrs; 1,2 ECTS credits

Total: 120 hrs; 11,6 ECTS credits

Exam: written; part of SIP1

Contents: The course focuses on morphology and physiology of all organ systems of both genders, especially on the musculoskeletal system, circulatory system, respiratory system, digestive system, urogenital system, endocrine and nervous systems (lecture + practical).

MODULE 3 A-LSUD 1 DIPLM M3 FROM MOLECULE TO CELL

Semester: 1

Lecture: 94 hrs; 9,0 ECTS credits

Practical course: 26 hrs; 2,5 ECTS credits

Total: 120 hrs; 11,5 ECTS credits;

Exam: written; part of SIP1

Contents: After a presentation of physical-chemical principles essential for a general understanding of modern cell biology, the course deals with organization of pro- and eukaryotes, cellular compartments, cell organelles, metabolism, energy production, transport, homeostasis, signal transduction, cell dynamics, information, organization of the nucleolus, cell division, cell death.

This basic knowledge is supported by clinical studies for a general understanding of normal cell behaviour as well as pathomechanisms.

The practical provides an introduction to expert methodology and laboratory work. In the seminar the fundamental concepts are discussed and applied through examples.

LINE 1 A-LSUD 1 DIPLM L1**SOCIAL SKILLS****Semester:** 1**Practical course:** 30 hrs; 2,9 ECTS credits**Total:** 30 hrs; 2,9 ECTS credits

exam: immanent examination character

Contents: The line element consists of an introductory seminar, a practical course and a tutorial. The seminar covers the theoretical aspects of the topic whereas during the practical students make direct contact with patients in need of care. Additionally, the observations are reflected and discussed in the weekly tutorial. The goal is to sensitize the student for adequate communication, empathy and appreciation during the treatment of patients as well as for professional behaviour in the interdisciplinary team. Furthermore, the aim is to encourage critical reflexion as well as the awareness of gender specific, social and cultural issues influencing health and disease.

LINE 2A A-LSUD 1 DIPLM L2**FIRST AID****Semester:** 1**Practical course:** 15 hrs; 1,1 ECTS credits**Total:** 15 hrs; 1,1 ECTS credits

exam: immanent examination character

Contents: Goal of the practical is to practice the required skills to give efficient and proper First Aid (on a manikin) according to general guidelines.

MODULE 4 A-LSUD 1 DIPLM M4**FUNCTIONAL SYSTEMS AND BIOLOGICAL REGULATION****Semester:** 2**Lecture:** 90 hrs; 8,6 ECTS credits**Practical course:** 15 hrs; 1,4 ECTS credits**Total:** 105 hrs; 10,0 ECTS credits**Exam:** written; part of SIP1

Contents: The lecture gives an overview of the functions of the somatic and vegetative nervous system, the inner organs, and the physiologic and biochemical aspects of metabolism with regard to the endocrine regulation. In the practical, the students learn examination methods of basic body systems (respiration, circulatory system, muscular functions, equilibrium, neuronal regulation) as well as basic blood work analysis.

MODULE 5 A-LSUD 1 DIPLM M5**GENETICS, MOLECULAR & CELLULAR COMMUNICATION****Semester:** 2**Lecture:** 42 hrs; 4,0 ECTS credits**Practical course:** 18 hrs; 1,7 ECTS credits**Total:** 60 hrs; 5,7 ECTS credits**Exam:** written; part of SIP1

Contents: In the lecture, the seminar and the practical the organization of the Human Genome, including principles of inheritance, genetic expression, and the cell cycle are discussed. Furthermore, students are taught the basics of genetic technology, as well as its application in diagnostics and

therapy. Additionally, medical ethical aspects of gene technology are discussed. Lastly, molecular aspects of morphogenesis are introduced.

MODULE 6 A-LSUD 1 DIPLM M6
THE HUMAN IN ENVIRONMENT, FAMILY & SOCIETY

Semester: 2

Lecture: 48 hrs; 4,6 ECTS credits

Practical course: 12 hrs; 1,2 ECTS credits

Total: 60 hrs; 5,8 ECTS credits

Exam: written; part of SIP1

Contents: The lecture deals with the basics of external causes for diseases and aspects of evolutionary biology, psychology, sociology, ethics, gender specific issues, and cross culture influencing health and pathology, examines the healthy and pathological psyche regarding disease, death, and dying with a focus on environment, such as working environment, including the basics of radiation biology, the psyche, the stages of life and family. Through discussion and practice in small groups as well as through private study the theoretic part is practically applied.

LINE 3 A-LSUD 1 DIPLM L3
HEALTH ASSESSMENT

Semester: 2

Practical course: 15 hrs; 1,1 ECTS credits

Exam: immanent examination character

Contents: The students practice physical examination techniques on the healthy human as well as basic techniques of infection control and hygiene.

5.2 The Second Stage of Study

During the six semesters of the second stage of study students have to attend compulsory courses to the extent of 115 hours and optional subjects to the extent of 8,9 hours. The courses are held in the form of lectures, seminars and practicals.

MODULE 7 A-LSUD 2 DIPLM M7
SPECIFIC STUDY MODULE 1 (SSM1): SCIENCE & MEDICINE

Semester: 3

Lecture: 15 hrs; 1,4 ECTS credits

Practical course: 45 hrs; 4,1 ECTS credits

Total: 60 hrs; 5,5 ECTS credits

Exam: written and immanent examination character

Contents: The lecture deals with the basics of medical science (structure, research methods) followed by an introduction to Evidence Based Medicine. The practical imparts medical information research (literary research in particular) as well as an introduction to computer based learning. The compulsory optional part provides a first insight into scientific work: the student has to research literature, compile an annotated bibliography and compose as well as present an abstract on a concrete topic.

MODULE 8 A-LSUD 2 DIPLM M8**DISEASE, ORIGIN & SYMPTOMS****Semester:** 3**Lecture:** 87 hrs; 8 ECTS credits**Practical course:** 33 hrs; 3,0 ECTS credits**Total:** 120 hrs; 11 ECTS credits;**Exam:** written; part of SIP2

Contents: The basics of patho-morphological response forms (necrosis, inflammation, tumour), general infectology, mechanisms of unspecific and specific (immunologic) defence, genetic and gender specific factors of pathogenesis, causes and mechanisms of canceration, patho-genetic mechanisms within the formation of vascular-, clotting- and degenerative diseases, neurobiological basics as well as psychosocial factors of pathogenesis are discussed in the lecture. Practicals and seminars illustrate the contents of the abovementioned topics and allow insight into the methods and significance of applied diagnostic techniques. The patho-physiological principles of the development of clinical disease patterns are illustrated by means of prevalent or important examples.

MODULE 9 A-LSUD 2 DIPLM M9**MANIFESTATION AND PERCEPTION OF DISEASES, GENERAL PHARMACO-THERAPY****Semester:** 3**Lecture:** 67 hrs; 6,2 ECTS**Practical course:** 53 hrs; 4,9 ECTS credits**Total:** 120 hrs; 11,1 ECTS credits**Exam:** written; part of SIP2

Contents: Within the scope of a lecture and a seminar the somatic, mental, as well as gender specific causes and appearances of diseases are illustrated on the basis of prevalent, significant and exemplary patterns of disease. Furthermore, the principles of general pharmacotherapy are introduced. Other contents are prevention, diagnostics, and therapy of micro-biologic diseases.

DENTAL PROPEDEUTICS I**A-LSUD 2 DENTM Prop1****Semester:** 3**Lecture:** 60 hrs; 4,2 ECTS credits;**Exam:** written

Contents: The lecture Dental Propedeutics I imparts specific knowledge in dental medicine concerning Oral Anatomy and Histology, Oral Pathology, Oral Microbiology and Hygiene as well as Materials Science and Dental Terminology.

LINE 4A**A-LSUD 2 DIPLM L4****MEDICAL INTERVIEW****Semester:** 3**Practical course:** 15 hrs; 1,0 ECTS credits Exam: immanent examination character

Contents: In this practical the student gets to know and practise the underlying general, medical, biographic, familiar, psycho-social and gender specific aspects of medical interviews in instructed small group classes. Students practice the first medical interview with a patient. The principles of competent communication with patients about diagnostic and therapeutical steps are acquired.

LINE 4A A-LSUD 2 DIPLM L4**MEDICAL INTERVIEW****Semester:** 3**Practical course:** 15 hrs; 1,0 ECTS credits Exam: immanent examination character**Contents:** In this practical the student gets to know and practise the underlying general, medical, biographic, familiar, psycho-social and gender specific aspects of medical interviews in instructed small group classes. Students practice the first medical interview with a patient. The principles of competent communication with patients about diagnostic and therapeutical steps are acquired.**LINE 5 A-LSUD 2 DIPLM L5****BASIC MEDICAL SKILLS****Semester:** 3**Practical course:** 15 hrs; 1,0 ECTS credits Exam: immanent examination character**Contents:** The goal of the practical course is the standardised impartation of a clinical basic competence in medical skills (eg. taking blood samples, inserting a urinary catheter, etc.), as well as in hygienic behaviour and skills (hand hygiene, non-touch-technique etc.). The contents are taught and practised in small group lectures by means of simulation models.**LINE POL A-LSUD 2 DIPLM POL****PROBLEM-ORIENTED LEARNING****Semester:** 3**Practical course:** 30 hrs; 2,1 ECTS credits Exam: immanent examination character**Contents:** Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.**MODULE 10 A-LSUD 2 DIPLM M10****ENDOCRINOLOGY AND METABOLISM****Semester:** 4**Lecture:** 38 hrs; 3,5 ECTS credits**Practical course:** 8 hrs; 0,7 ECTS credits**Total:** 46 hrs; 4,2 ECTS credits**Exam:** written; part of SIP2**Contents:** The lecture introduces anatomic, histological, physiologic and biochemical basics followed by the discussion of prevalent diseases of the endocrine organs, disorders of the carbohydrate-, protein- and lipid metabolism as well as diagnostic and therapeutic measures. The contents of the lecture are discussed in more detail in the seminar.**MODULE 11 A-LSUD 2 DIPLM M11****CARDIOVASCULAR SYSTEM AND BLOOD****Semester:** 4**Lecture:** 58 hrs; 5,3 ECTS credits**Practical course:** 32 hrs; 2,9 ECTS credits**Total:** 90 hrs; 8,2 ECTS credits**Exam:** written; part of SIP2**Contents:** In the first part of the lecture the student is provided with basic knowledge about constitution, function and development of the cardiovascular as well as the haematopoietic system in

connection with clinical problems and with regard to gender specific aspects. The second part introduces cardiovascular and blood diseases in synopsis of pathology and clinic, diagnostics, therapy, prevention and rehabilitation. The practical consists of medical-chemical and physical exercises as well as an ECG course. The seminar deals with pharmacology and pharmacotherapy of the cardiovascular and blood diseases.

MODULE 12 A-LSUD 2 DIPLM M12
RESPIRATORY SYSTEM

Semester: 4

Lecture: 36 hrs; 3,3 ECTS credits

Practical course: 12 hrs; 1,1 ECTS credits

Total: 48 hrs; 4,4 ECTS credits

Exam: written; part of SIP2

Contents: The goal of the lecture is the consolidation of physiological and patho-physiological basics of the respiratory tract considering gender specific aspects as well as the impartation of the most prevalent diseases of the upper and the lower respiratory tracts, the pathogenesis thereof (including psychosomatic causes), diagnostic and therapeutic possibilities.

The interdisciplinary lecture also includes physiology, anatomy, physics, histology, pneumology, anaesthology, cardio-thoracic surgery, radiology and paediatrics. In the seminar and the practical students develop relevant disease patterns of the respiratory tract in an interdisciplinary way.

LINE 6 A-LSUD 2 DIPLM L6
PHYSICAL EXAMINATION TECHNIQUES

Semester: 4

Practical course: 15 hrs; 1,0 ECTS credits Exam: immanent examination character

Contents: The goal of the practical is the acquisition of the physical examination of women and men in order to determine a status praesens. Also the topic of basic hygienic behaviour is raised.

LINE 7 A-LSUD 2 DIPLM L7
PROPEDEUTIC IN CLERKSHIP

Semester: 4

Practical course: 15 hrs; 1,0 ECTS credits Exam: immanent examination character

Total: 7 hrs; 0,5 ECTS credits

Contents: Goal of the practical is the consolidation of the contents of the line elements of semester 3 and 4 (Basic Medical Skills, Medical Interview I + II, Physical Examination Techniques) as well as the examination of the acquired skills. The course prepares directly for the clerkship.

LINE 8A A-LSUD 2 DIPLM L8A
ORGAN MORPHOLOGY I

Semester: 4

Practical course: 48 hrs; 3,3 ECTS credits

Total: 48 hrs; 3,3 ECTS credits

Exam: immanent examination character

Contents: The range of module-overlapping lectures with immanent examination character aims at the establishment of a connection to the interpretation of anatomic conditions in a clinical-diagnostic context by means of practical dissection on a body in integration with diagnostic imaging techniques as

well as at an understanding of clinically relevant topographic relations to the execution of surgical interventions. After an introductory stage during the dissection process reference is also made to the organ systems which are dealt with in the parallel modules 10-12.

LINE CBL A-LSUD 2 DIPLM L7

CASE-BASED LEARNING

Semester: 4

Practical course: 30 hrs; 2,1 ECTS credits

Contents: Goal of the course is the qualification of students to record and successfully treat clinical case histories. Contents are oriented on the modules held parallel to the respective CBL. Imparted knowledge is thereby deepened with the help of practical case studies. Students get to practice the making of a diagnosis as well as the principles of therapies. The course is held interactively under the instruction of clinicians from the respective clinical field. Students are introduced into clinical thinking and work. Gender-specific aspects are considered for the selection of case studies.

MODULE Z-1 A-LSUD 3 DENTM Z1

MASTICATORY ORGANS & MUSCULOSKELETAL SYSTEM

Semester: 5

Lecture: 100 hrs; 6,9 ECTS credits

Practical course: 15 hrs; 1,3 ECTS credits

Total: 115 hrs; 8,2 ECTS credits

Exam: written; part of Z-SIP3

Contents: The specific, normal, and pathological processes of the musculoskeletal system are discussed with regard to the biochemical, anatomic and physiological principles. Emphasis is placed on deepening the knowledge about the biological behaviour of cartilage and osseous tissue, turnover and atrophy, prostheses and pathology of bone tissue, as well as the knowledge ranging from oral and maxillofacial development to normal dental histology.

- one chapter of the lecture is devoted to knowledge about general bone surgery and traumatology relevant for the field of odontology. Furthermore, the students acquire the principles of pathological strain reactions relevant for their medical profession as dentists.

- The module is complemented by a practical course in histology pathology of the most important bone and joint diseases as well as in ergonomics and training.

MODULE Z-2 A-LSUD 3 DENTM Z2

ORAL PATHOLOGY & INTERNAL ORGANS

Semester: 5

Lecture: 100 hrs; 6,9 ECTS credits

Practical course: 40 hrs; 3,5 ECTS credits

Total: 140 hrs; 10,4 ECTS credits

Exam: written; part of Z-SIP3

Contents: The lecture deals with the anatomy, histology, physiology and pathology of the digestive tract with regard to disorders and diseases of the oropharyngeal, oesophageal, gastro-intestinal, hepatic and pancreatic spheres. Reasons for, consequences and therapy of nutritional disturbances are also discussed. Emphasis is placed on topics relevant for dentistry such as the salivary glands, oral mucosa and oral pathology.

- in one chapter of the lecture, the student learns about development, anatomy, function and prevalent diseases of the kidney and the urinary tract collection system as well as about the role of the kidney in water-electrolyte and acid-base imbalances. Furthermore, the consequences of renal function disorders on the metabolism in the total organism are presented.
 - another chapter introduces the anatomic, embryologic, histological, physiological and biochemical basics of reproduction relevant for dentistry. The emphasis is placed on sexuality, ethics, psychosocial and forensic issues. Moreover, chapters about gynaecology and urology with relevance for dentistry are discussed.
 - the interdisciplinary module also imparts the required knowledge about the hormonal balance, vitamins and the immune system.
- The module is complemented by a practical in Otorhinolaryngology and a practical in Oral.

MODULE Z-3 A-LSUD 3 DENTM Z3

BRAIN, SENSORY ORGANS & PAIN

Semester: 5

Lecture: 92 hrs; 6,4 ECTS credits

Practical course: 6 hrs; 0,4 ECTS credits

Total: 98 hrs; 6,8 ECTS credits

Exam: written; part of Z-SIP3

Contents: In the lectures on the nervous system the student acquires neurone specific aspects relevant for dentistry as well as an overview about the sensory organs of the head-neck region in consideration of relevant dental clinical pictures. The lectures especially deal with the basics of neuroanatomy and neurophysiology and the resulting emphasis on the topic of „stress“. Further emphasis of the module is laid on the topic of pain, its emergence and treatment. The students shall complement their basic skills by means of an introduction to neurological symptoms and syndromes together with an overview about the basics of psychiatry and the most important psychiatric clinical pictures. Additionally, the lectures deal with aspects of the emergence of fear and its treatment. Sensory physiological and clinically relevant symptoms and syndromes in ophthalmology as well as otorhinolaryngology are also described. Moreover the fundamentals of anesthesia are taught from a pharmacological and practical clinical point of view.

A practical which includes a practical demonstration of lecture topics relevant for dentistry complements the module; students get to acquire neurological examination techniques and practice the determination of the status relevant for dentistry. Furthermore, the practical discusses practice-related aspects of fear and pain as well as the basics of hypnosis and gives an insight into specific examination techniques.

HANDICAPPED PERSONS I

A-LSUD 3 DENTM L8A

Semester: 5

Lecture: 1 hr;

Practical course: 6 hrs;

Total: 7 hrs; 0,5 ECTS credits

Contents: This Line-element serves to learn and to convey dental and oral hygiene in consideration of physically or mentally handicapped persons.

METHODOLOGY OF MEDICAL SCIENCE - SSM2 A-LSUD 3 DENTM SSM2

Semester: 6

Lecture: 12 hrs; 0,8 ECTS credits

Practical course: 48 hrs; 4,1 ECTS credits

Total: 60 hrs; 4,9 ECTS credits

Exam: written

Contents: Consists of a compulsory and an optional part. The compulsory part comprises a lecture and a seminar which impart the statistical basics for the planning of scientific studies and the evaluation of projects, the role of random fluctuation, measuring errors and biological variability also being considered. International applicable standards in this domain are also addressed with the help of examples. During the small group courses (practical and seminar) of the optional part the student gets to know individual techniques of scientific work (laboratory, socio-scientific/psychological measuring methods). The application of the techniques focuses on a certain medical problem also considering methods of quality inspection and insurance.

DENTAL PROPEDEUTICS II

A-LSUD 3 DENTM Prop2

Semester: 6

Lecture: 183 hrs; 12,8 ECTS credits

Practical course Occlusion I: 53 hrs; 4,6 ECTS credits

Practical course Occlusion II: 10 hrs; 0,9 ECTS credits

Practical course Head-Neck-Region-Region & Exodontia: 74 hrs; 6,4 ECTS credits

Total: 320 hrs; 25,7 ECTS credits

Exam: written

Contents: The Dental Propedeutics II as the last courses (lecture + practical) of the second stage of study aim at providing the students with the most practice-related preparation possible for the clinical third stage of study.

- The theoretical part repeats and deepens the contents on the osseous anatomy of the head/neck region, the cerebral nerves as well as their protrusion and the masticatory organs and establishes the relationship to the aspects of dental practice.

The course also includes the topic of general dental examination techniques as well as the pharmacological, anatomic and clinical aspects of dental local anaesthetics. Students are provided with principle radiological skills as a basic preparation for the acquisition of the contents of the 4th study year.

- The practical "Occlusion" provides the possibility to acquire, practice and examine technical skills and imagination. Emphasis is placed on the morphology of teeth and dental arches as well as their dynamic relations. This is achieved by carving and scaling of a single tooth and of tooth groups.

- The clinical-anatomic practical „Head-Neck-Region & Exodontia“ is based on the theoretical knowledge of Propedeutics II and imparts systemic and topographical knowledge in anatomy considering multidisciplinary and clinical aspects of the head-neck-region. In addition, this practical course focuses on skills relevant for dentistry as well as their practice (e.g. local anaesthetics) under the supervision of dentists.

5.3 The Third Stage of Study

MODULE Z-5 A-LSUD 4 DENTM Z5 PERIODONTOLOGY & PROPHYLAXIS

Semester: 7

Lecture: 44 hrs; 2,3 ECTS credits

Practical course: 67 hrs; 4,6 ECTS credits

Total: 111 hrs; 6,9 ECTS credits

Exam: written; part of Z-SIP4

Contents: The lecture and practical course Periodontology imparts theoretical and practical knowledge on conservative periodontology and prophylaxis, dental aspects of microbiology and hygiene as well as on interfaces to other dental disciplines.

The students shall acquire the learning aims not only in a theoretical way through lectures, but also by means of extensive exercises during the practicals.

MODULE Z-4 A-LSUD 4 DENTM Z4 CARIOLOGY & DENTAL FILLING THERAPY

Semester: 7

Lecture: 44 hrs; 2,3 ECTS credits

Practical course: 54 hrs; 3,7 ECTS credits

Total: 98 hrs; 6 ECTS credits

Exam: written; part of Z-SIP3

Contents: Theoretical basics of Conservative Dentistry. Material sciences, endodontics, and laser in dentistry. The students shall get to know the rules and criteria of preparation, practice filling and restoration techniques; perform endodontic interventions on a mannequin and receive preparation for performance on a patient. Important aspects from a paradontological point of view will also be mentioned (e.g. Perio-Endo-Lesions).

MODULE Z-6 A-LSUD 4 DENTM Z6 CONSERVATIVE DENTISTRY

Semester: 7

Lecture: 73 hrs; 3,9 ECTS credits

Practical course: 130 hrs; 9,7 ECTS credits

Total: 203 hrs; 12,9 ECTS credits

Exam: written; part of Z-SIP4

Contents: The module consists of two chapters, single-tooth restoration and complex restorations.

Chapter 1: Single-tooth restorations

The goal of the chapter is the acquisition of theoretical knowledge and practical skills for the making of high-quality dental treatments on a single tooth.

Students shall get to know the "classic" preparation of crowns and inlays as well as modern materials and techniques in the area of cosmetic dentistry. Therefore full ceramic restorations will be mentioned such as the required adhesive techniques, as well as techniques such as CAD/CAM-systems or the multifunctional applicability of individual laser systems.

Chapter 2: Complex restorations

In this chapter students acquire and practice the processes required for prosthetic diagnostics and therapy, among them plastic impressions, model production, check-bites techniques, articulator mounting and control, as well as the determination of the occlusion status. Students practice simple methods of pretherapy for the prosthetic treatment such as the construction of a simple splint in the articulator and the control thereof in the mouth.

The individual steps are instantly evaluated regarding their quality and the evaluation is communicated to the students directly. With most working steps, students have the chance for another performance.

Furthermore, the practical focuses on the acquisition and the practising of the skills required for prosthetic treatments. Wide-span crown preparations are practiced on a mannequin; importance is thereby attached to retention, to functional design, to aesthetic design, to practicing of a sufficient groove preparation as well as to finishing.

The practical also discusses important interdisciplinary aspects of oral & maxillofacial surgery as well as special operations such as preprosthetic orthodontics and surgical crown extensions.

HANDICAPPED PERSONS II A-LSUD 4 DENTM L8C

Semester: 7

Lecture: 1 hr;

Practical course: 4 hrs;

Total: 5 hrs; 0,3 ECTS credits

Contents: Referring to the Line-element „Handicapped Persons I“ of the 5th term dental plaque staining and accurate inspection of the oral cavity with mirror and probe are carried out in order to re-motivate for oral hygiene according to the physical and mental handicaps of the patient.

MODULE Z-7 A-LSUD 4 DENTM Z7**PROSTHODONTICS**

Semester: 8

Lecture: 32 hrs; 1,7 ECTS credits

Practical course: 59 hrs; 4,1 ECTS credits

Total: 91 hrs; 5,8 ECTS credits

Exam: written; part of Z-SIP5

Contents: This module imparts the contents on detachable prosthetics theoretically as well as practically.

The lecture introduces the theoretical basics in an interdisciplinary way.

In the practical students shall manually acquire and practice the skills of dental care with a metal framework resp. a full denture.

MODULE Z-8 A-LSUD 4 DENTM Z8**ORAL SURGERY**

Semester: 8

Lecture: 58 hrs; 3 ECTS credits

Practical course: 83 hrs; 6,8 ECTS credits

Total: 141 hrs; 9,8 ECTS credits

Exam: written; part of Z-SIP5

Contents: The Surgery courses in Oral Surgery (lecture and practical), maxillo-facial Surgery (lecture) and periodontal surgery (lecture and practical) cover the surgical spectrum with an emphasis on

preprosthetic surgery, dysgnathia surgery, inflammation and dental implants as well as on traumatology, on therapy schemes for the treatment of carcinoma and tumors as well as on periosurgical treatments. Moreover, the high risk dental patient will receive special attention. Based on the contents of exodontia covered in the practical course "Head-Neck-Region-Region & Exodontia" of "DENTAL PROPEDEUTICS II" students get to practice dental extractions on patients.

MODULE Z-9 A-LSUD 4 DENTM Z9**ORTHODONTICS****Semester:** 8**Lecture:** 51 hrs; 2,7 ECTS credits**Practical course:** 64 hrs; 4,4 ECTS credits**Total:** 115 hrs; 7,1 ECTS credits**Exam:** written; part of Z-SIP5

Contents: The goal of the maxillofacial surgical training is to impart the basics of maxillofacial surgery, theoretical knowledge about the fundamental terms of detachable and fixed maxillofacial surgery as well as introduce the materials and devices in use. Cranial growth is discussed in more depth.

Clinical diagnostics including anamnesis and assessment provide the basic knowledge for the understanding of maxillofacial orthopaedic therapy schemes.

Furthermore, the student acquires the analysis of the orthopantograph and of the far x-ray in detail. The lecture discusses the treatment with removable appliances in depth, as well as the basic principles of treatment with orthodontic braces.

During this module great importance is attached to the presentation of the interaction of paradontology, prosthetics, oral surgery and oral and maxillofacial surgery.

DENTAL RADIOLOGY, RADIO PROTECTION & DIAGNOSTICS SEMINAR A-LSUD 4 DENTM RAD**Semester:** 8**Lecture:** 52 hrs; 2,8 ECTS credits**Practical course:** 31 hrs; 2,2 ECTS credits**Exam:** written**Total:** 83 hrs; 5,0 ECTS credits

Contents: This lecture includes the basic education of the radiation protection technician, basic principles of dental radiologic diagnostics as well as special training in the diagnostic application of X-rays, especially miniature radiograph diagnostics.

SEMESTER 9**EMERGENCY MEDICINE A-LSUD 4 DENTM EMM****Semester:** 9**Lecture:** 8 hrs; 0,4 ECTS credits**Practical course:** 16 hrs; 1,1 ECTS credits**Exam:** written and imminent Examination character**Total:** 24 hrs; 1,5 ECTS credits

Contents: The lecture and practical course Emergency Medicine focuses on dental aspects regarding cardiopulmonal reanimation.

DENTAL EXTRACTIONS ON PATIENTS A-LSUD 5 DENTM DEP**Semester:** 9**Practical course:** 5 hrs; 0,3 ECTS credits**Exam:** Imminent Examination character**Total:** 5 hrs; 0,3 ECTS credits

Contents: Referring to the knowledge of exodontia gained in the practical course of "Head-Neck-Region-Region & Exodontia" dental extractions on patients are demonstrated and practiced.

Total: 24 ECTS credits;
Exam: immanent Examination character

SEMESTER 12

A-LSUD 6 DENTM DCPR4

practical courses: (18 weeks); 1,3 ECTS credits/week

Total: 24 ECTS credits;
Exam: immanent Examination character

THESIS SEMINAR

Courses which enable students to independently acquire learning aims under the guidance of university professors (guided self-study).

THESIS SEMINAR A A-LSUD 4 DENTM SSTA

Semester: 8
Total: 6 ECTS credits

THESIS SEMINAR B A-LSUD 5 DENTM SSTB

Semester: 10
Total: 6 ECTS credits

THESIS SEMINAR C A-LSUD 6 DENTM SSTC

Semester: 11
Total: 3 ECTS credits

THESIS SEMINAR D A-LSUD 6 DENTM SSTD

Semester: 12
Total: 3 ECTS credits

PRACTICAL: MAXILLO-FACIAL SURGERY A-LSUD 6 DENTM PR MFS

Semester: 11
practical course: 81 hrs; 5,6 Credits
Exam: immanent Examination character

Contents: The Practical course of Maxillo-Facial Surgery imparts basic knowledge in maxillo-facial surgery with an emphasis on the routine operations of inpatient treatment for instance taking of blood samples and parenteral therapy.

LEGAL, ETHIC & ECONOMIC FUNDAMENTALS A-LSUD 5 DENTM LEEF

Semester: 12
Lecture: 45 hrs; 2,4 ECTS credits
Exam: written

Contents: The lecture introduces the most essential principles of medical law and social security law. Furthermore, aspects of employment law and occupational medicine as well as gender-specific aspects are addressed.

EMERGENCY MEDICINE REFRESHER A-LSUD 6 DENTM EMR

Semester: 12

practical courses: 16 hrs; 1,1 ECTS credits

Exam: immanent Examination character

6 MASTER STUDIES OF MEDICAL INFORMATICS N936

The objective of the Master Studies of Medical Informatics is a scientific professional qualification which enables the degree holders to apply informatics in the various fields of biomedical research, medicine and health care. According to the chosen focus this could be the Bioinformatics, Neurological Informatics, the Clinical Informatics or the Public Health Informatics

Medicine is the area, in which because of the complexity and also because of the importance methods of informatics are highly significant: such as structuring of medical information, evaluation of the information quality, the analysis of digital and digitised information, the modelling and assistance of workflows within the framework of patient management, visualization of information, image processing, therapy planning, telemedicine and also within the framework of Public Health and Health Care.

The amount of work is 120 ECTS Credits according to 4 terms.

During the 4 terms of the Master Studies of Medical Informatics students have to attend compulsory courses to the extent of 80 hours.

The academic degree awarded is "DI" Diplom-Ingenieur(in).

| COURSE CATALOGUE MEDICAL INFORMATICS | | | | |
|---|--|--|---|---|
| 1. Term | Basic Courses | Enhanced Courses | Interdisciplinary Informatics | |
| | Module 1 Taxonomy, Net working & Text Mining | Module 3 Statistics for Medical Informatics | Module 9 Advanced Software Engineering | |
| | Module 2 Data Bases, Cross linking & Evaluation Systems | | | |
| | Core subjects: combination 1 Block Bioinformatics | Core subjects: combination 2 Block Neuroinformatics | Core subjects: combination 3 Block Clinical Informatics | Core subjects: combination 4 Block Public Health Informatics |
| Module 10 Introduction to Bioinformatics | Module 14 Introduction to Neuroscience | Module 18 Signal Processing and Data Visualization | Module 21 Public Health Policy and Healthcare Management | |
| 2. Term | | Enhanced Courses (cont.) | Interdisciplinary Informatics (cont.) | |
| | | Module 4 Medicine for Medical Informatics | Module 6 Intelligent Data Analysis | |
| | | Module 5 System Analysis & Image Processing | Module 7 Man-Machine Interfaces | |
| | | | Module 8 Knowledge-based Systems | |
| 3. Term | Core subjects: combination 1 (cont.) | Core subjects: combination 2 (cont.) | Core subjects: combination 3 (cont.) | Core subjects: combination 4 (cont.) |
| | Module 11 Applied Bioinformatics | Module 15 Introduction to Neuroinformatics | Module 19 Application in Clinic & Research | Module 22 Epidemiology und Biostatistics |
| | Module 12 Extended Basics of Bioinformatics | Module 16 Cell Biology of Neurons | Module 20 Information Systems & Decision Support | Module 23 Information Systems |
| | Module 13 Bioinformatics: Practical Course | Module 17 Signal Processing in Nervous Systems | Attention: One of the 4 combinations of the Core Subject has to be chosen! | |
| Electives + Thesis Tutorials | | | | |
| 4. Term | Master thesis + Thesis Tutorials | | | |

