

Prof. Dr. Thomas Gudermann (MED) - Speaker

Prof. Dr. Heinrich Leonhardt (BIO) - Speaker

Prof. Dr. Martin Kerschensteiner (MED) – Head of examination board

Master of Science, Human Biology – Principles of Health and Disease

Introduction – 07.10.2024 – Biocenter LMU – online

The curriculum

- Combination
- Practical courses MA
- Seminars
- Lectures

1st
semester

**Methods in
Biomedical Science**

6 ECTS

P/S

**Data Analysis and
Bioinformatics**

6 ECTS

L/P

Biolmaging

6 ECTS

P/S

Model Organisms

6 ECTS

P/S

**Current topics in
Biomedical Science**

6 ECTS

L/S

Mandatory module

The curriculum

1st semester	Methods in Biomedical Science 6 ECTS P/S	Data Analysis and Bioinformatics 6 ECTS L/P	Biolmaging 6 ECTS P/S	Model Organisms 6 ECTS P/S	Current topics in Biomedical Science 6 ECTS L/S	!
2nd semester	Main topic (1 of 2) Epigenetics • Molecular Microbiology 9 ECTS L/P/S	Research practical (1 of 2) Epigenetics • Molecular Microbiology 12 ECTS RP/S	Interdisciplinary Module 9 ECTS L/P/S			
3rd semester	Main topic (1 of 3) Neurosciences • Molecular oncology • Cardio & Lung Research 9 ECTS L/P/S	Research practical (1 of 3) Neurosciences • Molecular oncology • Cardio & Lung Research 12 ECTS RP/S	Interdisciplinary Module 9 ECTS L/P/S		Transferable Skills	
	Mandatory module	Elective module	Colloquium, Disputation, Lecture, Practical course, Research, Seminar			

- Cell Biology, Stem Cells and Epigenetics (2nd)
- Microbiology, Infection & Immunology (2nd)
- Neurosciences (3rd)
- Molecular Oncology (3rd)
- Cardiovascular, Lung & Metabolism (3rd)

The main topics

2nd semester	Main topic (1 of 2) Epigenetics • Molecular Microbiology 9 ECTS L/P/S	Research practical (1 of 2) Epigenetics • Molecular Microbiology 12 ECTS RP/S
3rd semester	Main topic (1 of 3) Neurosciences • Molecular oncology • Cardio & Lung Research 9 ECTS L/P/S	Research practical (1 of 3) Neurosciences • Molecular oncology • Cardio & Lung Research 12 ECTS RP/S

- Cell Biology, Stem Cells and Epigenetics (2nd)
- Microbiology, Infection & Immunology (2nd)
- Neurosciences (3rd)
- Molecular Oncology (3rd)
- Cardiovascular, Lung & Metabolism (3rd)

UNIT I

- Lecture,
Practical course,
Seminar

UNIT II

- Research practical (RP),
group seminar
- 8 weeks
- MHB-Members
(internal)
- Only one external RP

Independent Units

The curriculum

1st semester	Methods in Biomedical Science 6 ECTS P/S	Data Analysis and Bioinformatics 6 ECTS P/S	Biolmaging 6 ECTS P/S	Model Organisms 6 ECTS P/S	Current topics in Biomedical Science 6 ECTS L/S
2nd semester	Main topic (1 of 2) Epigenetics • Molecular Microbiology 9 ECTS L/P/S	Research practical (1 of 2) Epigenetics • Molecular Microbiology 12 ECTS RP/S		Interdisciplinary Module 9 ECTS L/P/S	9 ECTS L/P/S
3rd semester	Main topic (1 of 3) Neurosciences • Molecular oncology • Cardio & Lung Research 9 ECTS L/P/S	Research practical (1 of 3) Neurosciences • Molecular oncology • Cardio & Lung Research 12 ECTS RP/S			
4th semester	Master Module 24 weeks 30 ECTS Thesis/S/C/D				
	Mandatory module	Elective module	Colloquium! Disputation, Lecture, Practical course, Research, Seminar		

The 1st semester

07.10. - 11.10.	Welcome week
14.10. - 18.10.	P2 Comp. Biology Part 1 (Tue-Fri)
21.10. - 25.10.	P1 Lab methods (Tue-Fri)
28.10. - 01.11.	
04.11. - 08.11.	
11.11. - 15.11.	P2 Comp. Biology Part 2 (Tue-Fri)
18.11. - 22.11.	
25.11. - 29.11.	
02.12. - 06.12.	P3 Bioluminescence (Tue-Fri)
09.12. - 13.12.	
16.12. - 20.12.	
23.12. - 27.12.	Christmas holidays
30.01. - 03.01.	

07.01. - 10.01.	P4 Model-Organisms (Tue-Fri)
13.01. - 17.01.	
20.01. - 24.01.	
27.01. - 31.01.	exams
03.02. - 07.02.	
10.02. - 14.02.	
17.02. - 21.02.	time for e.g. elective courses
24.02. - 28.02.	
03.03. - 07.03.	
10.03. - 14.03.	
17.03. - 21.03.	
24.03. - 28.03.	
31.03. - 04.04.	
07.04. - 11.04.	
14.04. - 22.04.	

The 1st semester

Monday	Tuesday	Wednesday	Thursday	Friday
LECTURE - DAY Mandatory: 16:30 Lecture Current topics (P5)	08:00 - 10:00 Lecture / Seminar Slot			
	10:00 - 17:00 Slot for Practical courses			
	P1 Lab Methods in Human Biology "The essentials" 21.10. – 08.11.			
	P 2 Data analysis (Computational Biology Part 1 and Part 2) 14.10. – 18.10. and 11.11. – 29.11.			
	P 3 Biolmaging 02.12. – 20.12.			
	P 4 Modelorganisms 07.01. – 24.01.			
	17:00 - open end Seminar Slot			
	Mandatory: Thursday: 17:30-19:30 (Current topics, seminar, P5)			

The 1st semester

- 13.10.
Brunch Meeting with the cohort before you!
- 17.10.
Time management course
- 13.11.
Teamplayer & Leadership! 1st part!

An important link

Vorlesungsverzeichnis/
Course catalogue/
www.lsf.lmu.de



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Elitenetzwerk
Bayern

Course catalogue

LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN LSF – LEHRE STUDIUM FORSCHUNG

You are here: **Home**

- Course catalogue
- Lectures cancelled today
- Search for courses
- Search for persons
- Search for rooms
- University structure

Welcome to LSF - the university portal for students, g

💡 Please note that you can use all the functions in the left column (e. without login in.

LMU user account

@campus.lmu.de or @lmu.de

Password

[Forgot your password?](#) [Register for access](#)

Course catalogue

Course catalogue

Lectures cancelled today

Search for courses

Search for persons

Search for rooms

University structure

Course catalogue (WiSe 2021/22)

- [i Vorlesungsverzeichnis](#)
- [i Courses across faculties](#)
- [i Faculty of Catholic Theology](#)
- [i Faculty of Protestant Theology](#)
- [i Faculty of Law](#)
- [i Faculty of Business Administration](#)
- [i Faculty of Economics](#)
- [i Faculty of Medicine](#)
- [i Faculty of Veterinary Medicine](#)
- [i Faculty of History and the Arts](#)
- [i Faculty of Philosophy, Philosophy of Science and Religious Studies](#)
- [i Faculty of Psychology and Educational Sciences](#)
- [i Faculty of Cultural Sciences](#)
- [i Faculty of Languages and Literatures](#)
- [i Faculty of Social Sciences](#)
- [i Faculty of Mathematics, Computer Science and Statistics](#)
- [i Faculty of Physics](#)
- [i Faculty of Chemistry and Pharmacy](#)
- [i Faculty of Biology](#)
- [i Faculty of Geosciences](#)
- [i Internationale Angelegenheiten](#)

Course catalogue

You are here: [Home](#) ▶ [Course catalogue](#)

Course catalogue

Lectures cancelled today

Search for courses

Search for persons

Search for rooms

University structure

Course catalogue (WiSe 2021/22)

① **Vorlesungsverzeichnis**

➔ ① **Faculty of Biology**

① **Courses of the faculty**

Lect.-No.	Lecture
19041	Berufsbilder für BiologInnen - Brachmann , H. Jung ,

① **A) Bachelor Start ab WS 20/21**

① **A) Bachelor Start vor WS 19/20**

➔ ① **B) Master Human Biology - principles of health and disease**

① **B) Master Molecular and Cellular Biology**

① **B) Master Neuroscience**

① **B) Master Plant Sciences**

① **B) Master Evolution, Ecology and Systematics**

Course catalogue

Course catalogue (WiSe 2024/25)

① Vorlesungsverzeichnis

① Faculty of Biology

① Courses of the faculty

① B) Master Human Biology - principles of health and disease

① 1. Semester

① Transferable Skills Module - Schlüsselqualifikationen

Lect.- No.	Lecture	Type	Activity
19081	Vorlesung: Berufsbilder in der Biologie - Brachmann , H. Jung	lecture	
19255	Practical course and Seminar: Applications of Machine Learning in Biology - Leonhardt , Hörl	seminar	application currently not allowed
19256	Teampayer & Leadership – Explore and develop yourself	seminar	application currently not allowed
19257	Time Management	seminar	application currently not allowed

➡ Application between
07.10 – 13.10.

Course catalogue

Transcript
Schedules
Course catalogue
Search for courses
List of exams registered for
Register for exams
Register for courses
Stay abroad
<< Hide menu



Course catalogue (WiSe 2024/25)

Navigation: → : show complete tree **Link** : e

- ① **Vorlesungsverzeichnis**
 - ① **Faculty of Biology**
 - ① **Courses of the faculty**
 - ① **B) Master Human Biology - principles of health and disease**
 - ① **1. Semester**

Lect.-No.	Lecture
	Orientation week - Brunch Meeting - Bassios
19232	Master Welcome Event - Meilinger
19234	Introduction to Master MCB, PLS, MHB - H. Jung , Nägele , Leonhardt , K. Jung , Leister , Parniske , Osman , Kerschensteiner

 - ① **P1 Lab methods in human biology**
 - ① **P2 Data analysis and bioinformatics (Computational Biology)**
 - ① **P3 Bioluminescence**
 - ① **P4 Model organisms**
 - ① **P5 Current topics in biomedical research**
 - ① **Interdisciplinary Module**
 - ① **Transferable Skills Module - Schlüsselqualifikationen**

Course catalogue

Please select LSF system: www.lsf.lmu.de

Login with your personal data.

Select **english version** (on the top right of the page).

Select [Register for courses](#) (Lehrveranstaltungen belegen/abmelden)

[Home](#) | [Logout](#)


acting as: Student

Bitte beachten Sie, dass Sie sich ab sofort nach erfolgreichem Login im Wintersemester 2023/24 befinden. Semester rechts oben und wählen Sie im Anschlag.

You are here: **Home**


- Transcript
- Schedules
- Course catalogue
- Search for courses
- List of exams registered for
- Register for exams
- Register for courses**
- Stay abroad

My Functions



My contacts

- Master Human Biology - Principles of Health and Disease



When to register for courses

- Master Human Biology - Principles of Health and Disease

Register for courses

LSF – LEHRE STUDIUM FORSCHUNG

as: Student

Important information on course registration
Please read carefully!

Master Biologie (PO-Version: 2012):

Der zuständige Prüfungsausschuss macht darauf aufmerksam, dass das Belegen der Lehrveranstaltungen Über HISLSF keine verbindliche Anmeldung zu den
Form und Fristen
- für die Belegung von Lehrveranstaltungen
- für die Anmeldung zu Prüfungen
werden auf der Internetseite des für Ihren Studiengang zuständigen >Prüfungsamts< bekanntgegeben.

Attention In your schedule, you can use the button "Registrations (PDF)" to print an overview of the courses you registered for. Please make use of this opportunity.

Important: To continue please tick "I accept" and press "Next".

Accept terms

☐ I accept

Next

Register for courses

Register for courses

P 7001 seminars
Choice: 1 from 50

<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Mechanisms of plant gene regulation
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: From centrioles to microcephaly
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Stem cells
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Microbial Physiology and Synthetic Biology
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Design of experiments in plant science
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Covid-19: Wissenschaft & Philosophie
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar - Methods in electron microscopy and their application
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Molecular genetics and signal transduction of pathogenic protozoa
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: DNA-Repair
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar - Hot topics in (cryo) electron microscopy
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar: Structural and functional analysis of prokaryotic transmembrane receptors and transporters
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar for bachelor, master, and doctoral students and for Zulassungskandidaten (AG Phylogeny and evolution)
<input checked="" type="radio"/> Register <input type="checkbox"/>	Priority: <input type="text"/> <input type="button" value="v"/>	<input type="button" value="i"/> Seminar for bachelor, master and doctoral students (AG Phylogenetic phycology)

Course catalogue

Vorlesungsverzeichnis (WiSe 2024/25)

① Vorlesungsverzeichnis

① Fakultät für Biologie

① Veranstaltungen der Fakultät

① B) Master Human Biology - principles of health and disease

① 1. Semester

① Interdisciplinary Module

It is allowed to use following courses for the interdisciplinary module (9 ECTS-Points): Max. 3 lectures (related to molecular Biology / Biomedical Science); Max. 3 practical courses (related to molecular Biology / Biomedical Science); Max. 3 seminar (related to molecular Biology / Biomedical Science) and Max. 1x Job as tutor (without payment, 90 hours workload for each). You can apply for **all** seminars and practical courses of the Faculty of Biology. The courses below are only suggestions.

Vst.- Nr.	Veranstaltung	Vst.-Art	Aktion
08136	Molecular Parasitology: Practical Approaches, geblockt, Laboratorien Lena-Christ-Str. 48, Martinsried-Planegg, ab dem 5. Semester - Meißner	n/a	
19020	Practical course: Antibody and protein engineering (incl. Seminar) - Leonhardt , Meilinger , Stengl	Übung	
19152	Contemporary overview in research-based preparation of specimens - van Heteren	Praktikum	
19153	Seminar: Sample preparation for electron microscopy - Klingl	Seminar	
19165	Seminar: 12 Drugs That Changed The World - Meilinger , Leonhardt	Seminar	
19231	Introduction to stem cell biology and regenerative medicine , Burbulla- Rees	Vorlesung & Übung	belegen/ abmelden

Distribution Day

Friday, October 18th, 2024 at 8:30 a.m. by Zoom meeting



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Elitenetzwerk
Bayern

Course catalogue

You do not have to apply via the LSF for the mandatory courses offered in the first semester!



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Elitenetzwerk
Bayern

Locations

Where do all the courses take place?

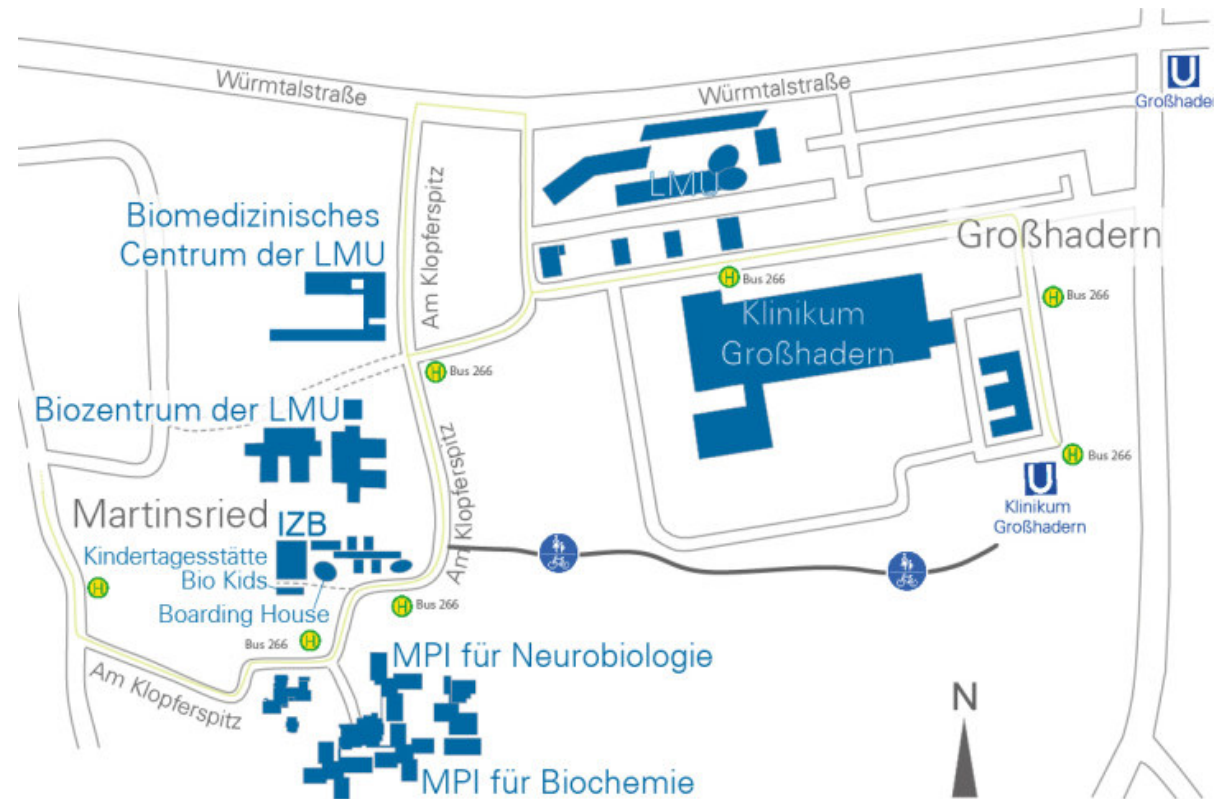


LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Elitenetzwerk
Bayern

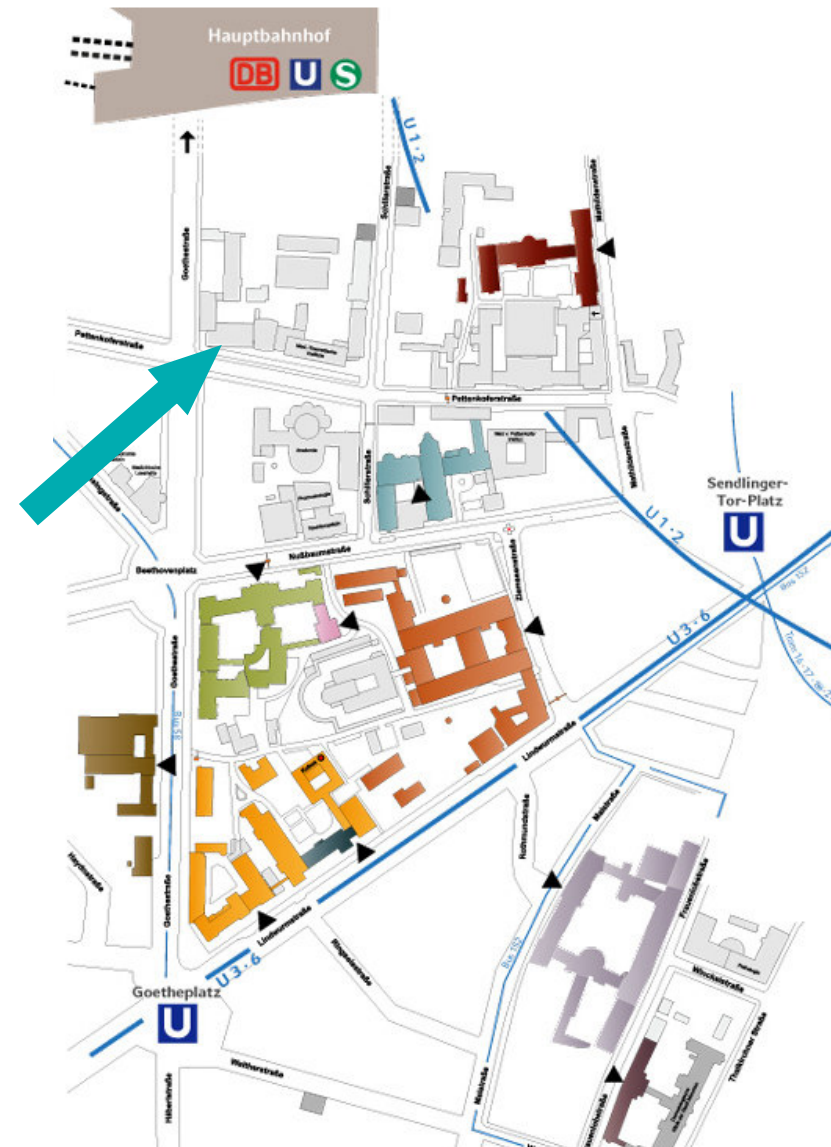
High TechCampus Martinsried



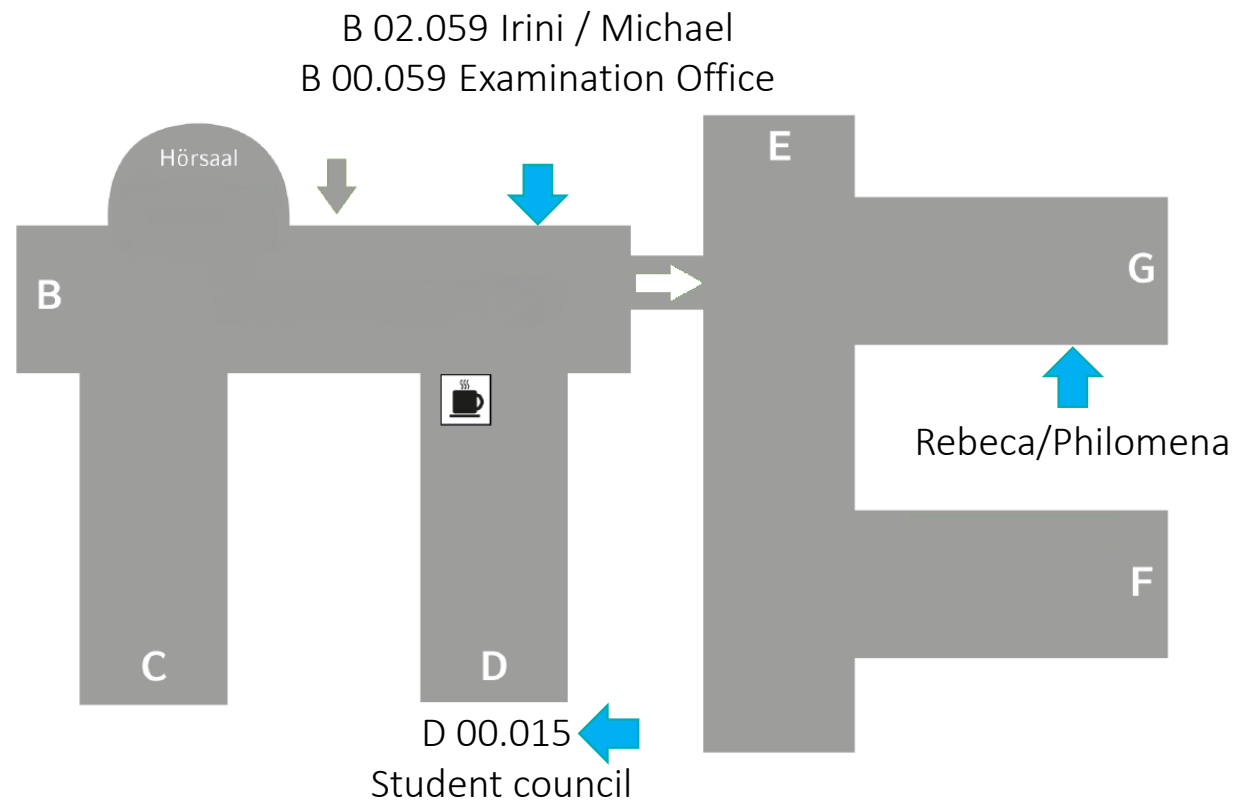
Medical Campus in downtown Munich

Walther-Straub-
Institute of
Pharmacology
and Toxicology

Goethestr. 33



Biocenter



General pointers – Study program

Health issues

Missing of exams/practical courses

Max. study duration

1st semester courses

Exams

twice/per semester

1. exam and make up exam (improvement)

Recognition of credits

Emails (campus – email)

Erasmus internship or study abroad (information session)

<https://www.lmu.de/de/workspace-fuer-studierende/auslandserfahrung-sammeln/auslandsstudium/index.html>



**Elitenetzwerk
Bayern**

Get together 17.10. for international students

General pointers – Study program

LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN FACULTY OF BIOLOGY & FACULTY OF MEDICINE ELITE MASTER PROGRAM HUMAN BIOLOGY PRINCIPLES OF HEALTH AND DISEASE Elitenetzwerk Bayern

www.en.lmu.de LMU-Portal Faculty of Biology Sitemap

Home » Downloads

ANNOUNCEMENTS

PRESS RELEASE

IMPRESSIONS

PROGRAM

RESEARCH

ADMISSION

CONTACT

STUDYING IN MUNICH

DOWNLOADS

Recognition of credits

Travel Funds & Reimbursement

Downloads Documents and Information

Curriculum

Slides - Orientation	How things work? Introduction to the study program 09.10.2023
Colloquium	Colloquia attendance list MHB
Study Regulation	Study Regulation
Module Catalogue	Module Catalogue and Course Catalogue (Part of Module Catalogue)
Register for courses	Guidelines
Internships / Research practical	List of internal supervisors - MHB Members
	Guidelines for an internship started before August 1st, 2024
	Guidelines for an internship started after August 1st, 2024
	Internal supervision for an external internship

General pointers – Study program

Everything is new!

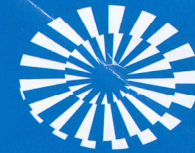
Cultureshock?! Yes! No?

Ask, ask, ask!!!

LMU Munich Services for students

Sports

University Sports Center
Munich (ZHS)
Winter 2024/25



WeCare@LMU

You are not alone!

The "WeCare@LMU" initiative supports students and employees to cope with crisis situations as well as psychological and personal challenges.

<https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/wecare-lmu-2024/>

Studying with disabilities

LMU Office for Disability Services

Disabilities or chronic illnesses can lead to difficulties in studying, which require compensation for disadvantages.

IMPORTANT: the services are strictly confidential – no documentation on any official notification or certificates!

Introduction event 2024: October 11, 2024, 10:00 h

Info: <https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-disability/>

Studying with a child



Studying with a child - office

Concerns students who are pregnant. Students who have or plan to have children. The LMU Munich gives you lots of tips.

Info: <https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-child/index.html>

Elite Network



Next step

Enjoy the introduction week!

Keep in touch!

**GOOD
START!**



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Elitenetzwerk
Bayern