Prof. Dr. Thomas Gudermann (MED)

Prof. Dr. Heinrich Leonhardt (BIO)

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

Introduction – 30.09.2025 – online





#### Semester dates

Semester	Lecture start date	Lecture end date
Winter semester 2025/26	October 13, 2025	February 6, 2026
Summer semester 2026	April 13, 2026	July 17, 2026
Winter semester 2026/27	October 12, 2026	February 5, 2027
Summer semester 2027	April 12, 2027	July 16, 2027
Winter semester 2027/28	October 18, 2027	February 11, 2028

Duration winter semester: October 1 – March 31, 15 weeks

There are no lectures over the Christmas break from 24 December to 6 January.

Duration summer semester: April 1 – September 30, 14 weeks

There are no lectures on public holidays which includes Whitsun Tuesday.





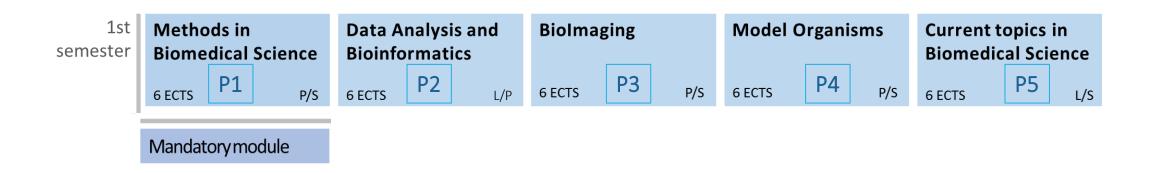
## The curriculum

1st semester	Methods in Biomedica		Data Ana Bioinform	•	Biolmagin	g	Model O	rganisms	Current topics in Biomedical Science	
	6 ECTS	P/S	6 ECTS	L/P	6 ECTS	P/S	6 ECTS	P/S	6 ECTS	L/S
2nd semester	• • •		Research practical (1 of 2)  Cell Biology, Stem Cells and Epigenetics •  Microbiology, Infection & Immunology  12 ECTS		Interdiscip Module		linary	9 ECTS L/P/S		
3rd semester	Main topic Neurosciences Cardio & Lung 9 ECTS	• Molecular	oncology •	Neuroscience	n practical (1 of 3) nces • Molecular oncology • ung Research		RP/S	9 ECTS L/P/S	Transfera	ble Skills
4th semester							Thesis/S/C/D			
	Mandatorym	nodule	Elective mod	dule	<b>C</b> olloquium,	, <b>D</b> isputation	, <b>L</b> ecture, <b>F</b>	Practical cours	se, <b>R</b> esearch	





## The curriculum – Mandatory modules (P1 – P5)



- •Practical courses (P): Provide you with the practical knowledge for the coming semesters. (mandatory attendance!)
- •Seminars (S): Each of you will get a scientific publication, basis for a presentation you have to prepare and give, attendance is important.
- •Lectures (L): Attendance is not compulsory, but appreciated and expected.





#### P5 – Current topics in biomedical science

- Lecture once a week on Monday, different professors from both faculties
- Seminar once a week on Thursday (one exception!)
- Paper regarding the lecture will be presented by students
- The topics are distributed randomly

When and which scientific publication?

→ Moodle-Key for the course





## The curriculum – Elective modules

1st semester	Methods in Biomedica		Data Ana Bioinforn	•	Biolmagin	g	Model O	rganisms	Current topics in Biomedical Science	
	6 ECTS	P/S	6 ECTS	L/P	6 ECTS	P/S	6 ECTS	P/S	6 ECTS	L/S
2nd semester	, , ,		Research practical (1 of 2)  Cell Biology, Stem Cells and Epigenetics •  Microbiology, Infection & Immunology  12 ECTS		RP/S	Interdiscip Module	linary	9 ECTS L/P/S		
3rd semester	Main topic Neurosciences Cardio & Lung 9 ECTS	• Molecular	oncology • L/P/S		<b>practical (1</b> des • Molecular des generals des des des des des des des des des de	•	RP/S	9 ECTS L/P/S	Transfera	ble Skills
4th semester	Master Mo							Thesis/S/C/D		
	Mandatoryn	nodule	Elective mod	dule	<b>C</b> olloquium,	<b>D</b> isputation	ı, <b>L</b> ecture, <b>F</b>	Practical cours	se, <b>R</b> esearch	



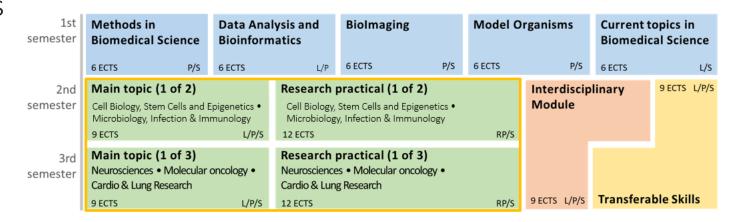


#### The curriculum – Elective modules

#### 2<sup>nd</sup> and 3<sup>rd</sup> semester Main Topic:

You choose your priority. Then spots will be assigned before the start of the semester with the following prioritization:

- 1) Your Priority.
- Your current semester. (Seniority)
- 3) Overall grade from Modules P1 + P2 + P3







#### Research practicals

- •2 research practicals in total
- •8 weeks in a lab per research practical
- •Research group part of the MHB Program (list on our website in section "DOWNLOADS")
- •One research practical can be external (outside faculties or outside LMU)
- Read the guidelines -> Clarify before if it's possible or not!





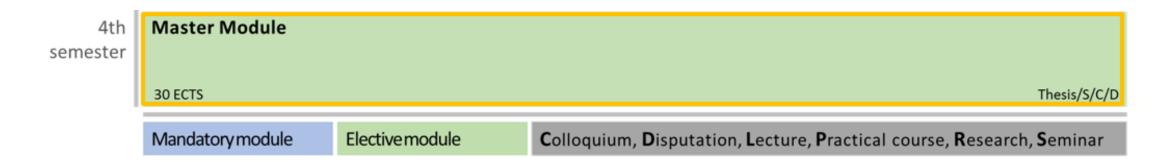
#### The curriculum – Interdisciplinary and transferable skills

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





#### The curriculum – Master Module



- 26 ECTS-Credits for the Master Thesis (24 weeks)
- remaining 4 ECTS:
  - Laboratory seminar (1,5 ECTS)
  - o Colloquia (at least 20) (1,5 ECTS)
  - Disputation of Master Thesis (1 ECTS)





## Master of Human Biology

Where do I find information regarding the scientific talks?

→ On the website of the <u>Faculty of Biology</u>





### First semester – Your schedule

Week	Dates	Modules 1st semester				
CW 40	29.0903.10.	Welcome eve	ents (Faculty)			
CW 41	06.1010.10.	Welcome events (intercultural, students)	Welcome Brunch (12.10.)			
CW 42	13.1017.10.	First Lecture P5 Curi	• • • •			
		P2 Comp. Biol. (F	Part 1) (Tue - Fri)			
CW 43	20.1024.10.		P2 Comp. Biol. Part 2 (Gr. 1)			
CW 44	27.1031.10.	P1 Lab Meth. (Gr. 1)	(Tue - Fri)			
CW 45	03.1107.11.		(1de - 111)			
CW 46	10.1114.11.		P2 Comp. Biol. Part 1 (Gr. 2)			
CW 47	17.1121.11.	P1 Lab Meth. (Gr. 2)	(Tue - Fri)			
CW 48	24.1128.11.		(1de - 111)			
CW 49	01.1205.12.					
CW 50	08.1212.12.					
CW 51	15.1219.12.					
CW 52	22.1226.12.	Christmas Holidays				
CW 1	29.1202.01.	Christmas Holidays				

CW 52	22.1226.12.	Christmas Holidays	
CW 1	29.1202.01.	Cili istilias Holidays	
CW 2	05.0109.01.		
CW 3	12.0116.01.	D4 Model Organisms (Tue Eri)	
CW 4	19.0123.01.	P4 Model Organisms (Tue-Fri)	
CW 5	26.0130.01.		
CW 6	02.0206.02.	Exams	
CW 7	09.0213.02.	Exams	
CW 8	16.0220.02.		
CW 9	23.0227.02.		
CW 10	02.0306.03.		
CW 11	09.0313.03.	e.g. elective courses (holidays, attend courses for	
CW 12	16.0320.03.	interdisciplinary module, internship for 2nd semester)	
CW 13	23.0327.03.		
CW 14	30.0303.04.		
CW 15	06.0410.04.		
CW 16	13.0417.04	Next semester	





#### The 1st semester – your week in general (applies to all semesters)

**Monday** 

**Tuesday** 

Wednesday

**Thursday** 

Friday

Lecture Sid

Lecture slot: 8:00 - 10:00

#### **Lecture day**

**Mandatory:** 

16:30 Lecture "Current topics" (P5) Slot for Practical courses: 10:00 – 17:00

P1 - Lab Methods in Human Biology "The essentials,, P2 - Data analysis (Computational Biology Part 1 and Part 2)

P3 – BioImaging

P4 – Model organisms

Seminar Slot: 17:00 - open end

Mandatory: Thursday: 17:30-19:30 (Current topics, seminar, P5)





#### The 1st semester

12.10.2025 - Brunch Meeting with previous cohort

Opportunity to meet your student mentor!

#### Teamplayer & Leadership

Kick-Off 24.11.2025 – 09:00-16:00, Weekend 31.01.-01.02.2026

Registration Period: open until <u>27th October</u>, <u>2025</u>

Dr. Julia Bayer: Live your full potential in a team.

#### Time Management course

4 dates: 16.10., 27.11., 18.12., 08.01. (08:30-10:00)

Registration period: open until <u>08th October</u>, <u>2025</u>

Gene Goff: Guides you through the principles of effective time management.

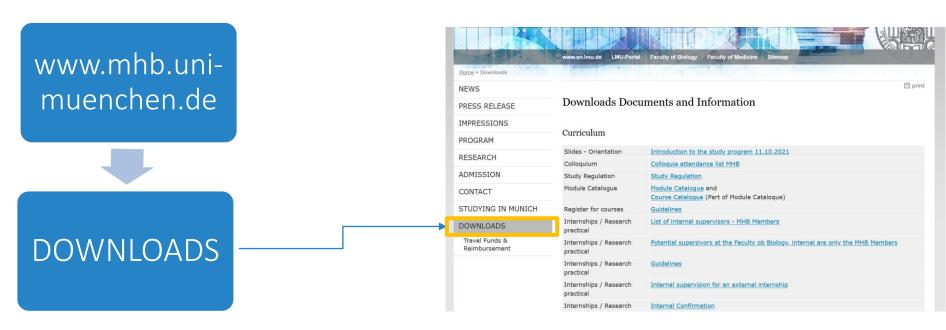




## Master of Human Biology

Where do I find all relevant information and documents?

→ On the website of the MHB Program







## Course catalogue / Vorlesungsverzeichnis



- Name and type of the courses
- Semester weekly hours
- Type of lecture (online)
- •Term





#### LSF - LEHRE STUDIUM FORSCHUNG



You are here: Home	
Course catalogue	
Lectures cancelled today	Welcome to LSF - the university portal for students, g
Search for courses	, T
Search for persons	Please note that you can use all the functions in the left column (e.
Search for rooms	without loggin in.
University structure	
	LMU user account
	LMU-Benutzerkennung @campus.lmu.de or @lmu.de
	Password
	Passwort
	Forgot your password? Register for access
	Login





Course catalogue	Course catalogue (WiSe 2021/22)		
Lectures cancelled today	(i) Vorlesungsverzeichnis		
Search for courses	(i) Courses across faculties		
Search for persons	(i) Faculty of Catholic Theology		
Search for rooms	(i) Faculty of Protestant Theology		
University structure	(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		





You are here: Home 
Course catalogue Course catalogue Course catalogue (WiSe 2021/22) Lectures cancelled today (i) Vorlesungsverzeichnis Search for courses **Faculty of Biology** Search for persons (i) Courses of the faculty Search for rooms Lect.-No. Lecture University structure Berufsbilder für BiologInnen - Brachmann, H. Jung, 19041 (i) A) Bachelor Start ab WS 20/21 (i) A) Bachelor Start vor WS 19/20 (i) B) Master Human Biology - principles of health and disease (i) B) Master Molecular and Cellular Biology (i) B) Master Neuroscience (i) B) Master Plant Sciences (i) B) Master Evolution, Ecology and Systematics





## LSF – Registration for transferable skills courses and lectures

Course catalogue	Course catalogue (WiSe 2021/22)	View: short medium long				
Lectures cancelled today	(i) Vorlesungsverzeichnis					
Search for courses	(i) Faculty of Biology					
Search for persons	(i) Courses of the faculty					
Search for rooms	(i) B) Master Human Biology - principles of health and disease	(i) B) Master Human Biology - principles of health and disease				
University structure	1. Semester					
	(i) Transferable Skills Module					
		B 42.24				
	Lect Lecture Type No.	Activity				









Course catalogue	Course catalogue (WiSe 2021/22)			
Lectures cancelled today	(i) Vorlesungsverzeichnis			
Search for courses	(i) Faculty of Biology			
Search for persons	(i) Courses of the faculty			
Search for rooms	(i) B) Master Human Biology - principles of health and disease			
University structure	(i) 1. Semester			
	Lecture  No.  19173 Introduction to Master MCB, PLS, MHB - H. Jung, Leonhardt, Parniske, Starck, Osman  (i) P1 Lab methods in human biology			
	(i) P2 Data analysis and bioinformatics (Computational Biology)			
	(i) P3 Biolmaging			
	(i) P4 Model organisms			
	P5 Current topics in biomedical research			
	i Interdisciplinary Module			
	(i) Transferable Skills Module			

**Application** for seminars and practical courses until Sunday, October 5 (23:59h CEST). ) via LSF function "Register for courses"





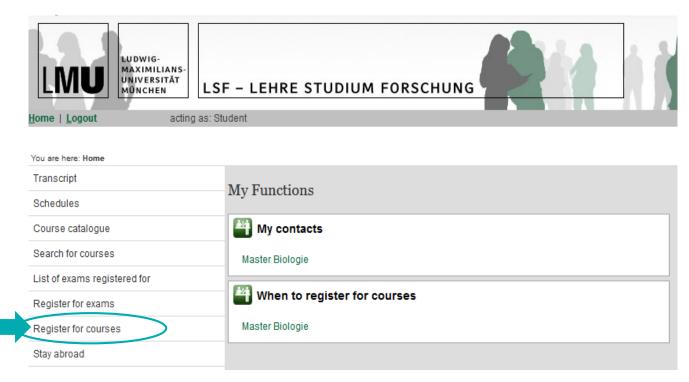
## LSF - Register for courses

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

Login with your personal data.

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

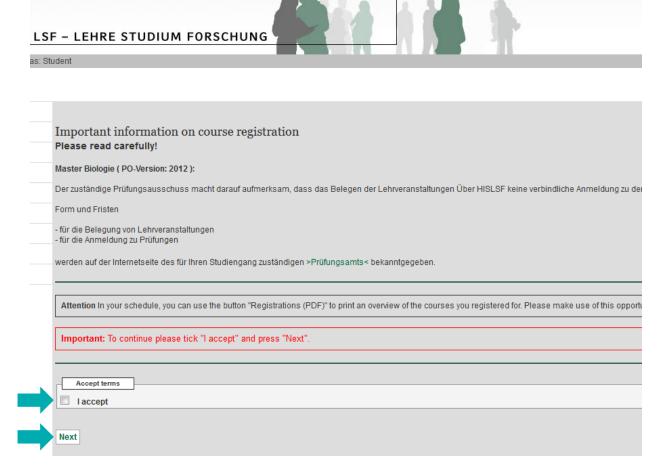
Select Register for courses (Lehrveranstaltungen belegen/abmelden)







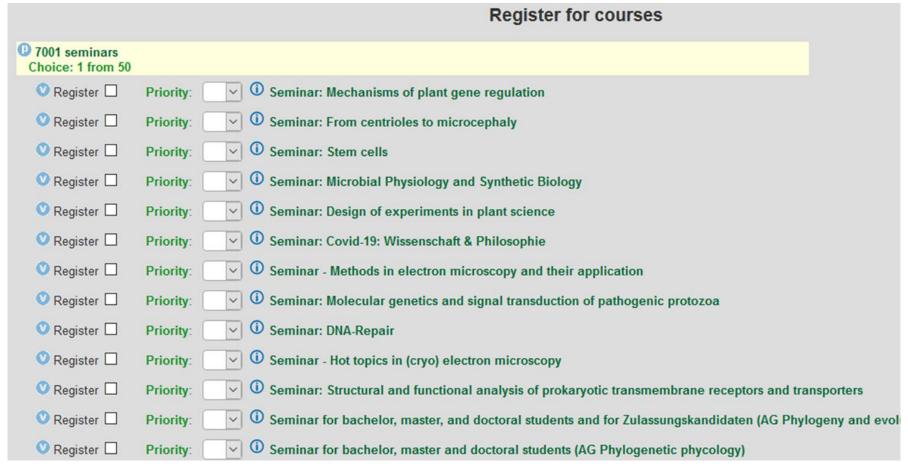
## LSF - Register for courses







## LSF - Register for courses (Seminars and practicals; including Main Topics 2nd and 3rd semester)







## Distribution day – Interdisciplinary modules

Friday, October 10, 2025 (starting at 09:00) by Zoom meeting (link will follow soon)



For all those who have chosen practical courses the distribution will be discussed





#### General pointers – LSF

- •You do <u>not</u> have to apply via the LSF for the mandatory courses offered in the <u>first</u> <u>semester</u>
- •Please only apply for practical courses and seminars that you would like to attend for your interdisciplinary module.
- Please also register for lectures (without a priority on this)

19197	Lecture: Detection and analysis of biomolecules - Microscopy and spectroscopy in the life sciences - Cordes	lecture	register/cancel	4
19218	Lecture: Applied Electronics for Biologists - Genewsky	lecture	register/cancel	

7C073	Lecture Immunology I (Part II im SoSe) - Vorlesung Immunologie I (Teil II im SoSe) - Brocker, Heissmeyer, Klein, Kranich, Krug, Obst	(C) Ergänzungsveranstaltung
7C130	Pharmacology and Toxicology for Natural Scientists, Boekhoff, Breit, Chubanov, Dietrich, Groth, Groth, Grimm, Mederos Y Schnitzler, Nicke, Sabbioni, Storch, Schredelseker	(C) Ergänzungsveranstaltung









#### General pointers – registration for courses

Seminars & practical courses

You need to sign up via LSF

Lectures

Registration required for some lectures (see LSF)

Research courses

 Contact the group leaders directly, even if a research course is listed in LSF

Lectures have no participant limits; seminars and practicals are subject to capacity. If applications exceed available places, a random selection is made.





#### Locations

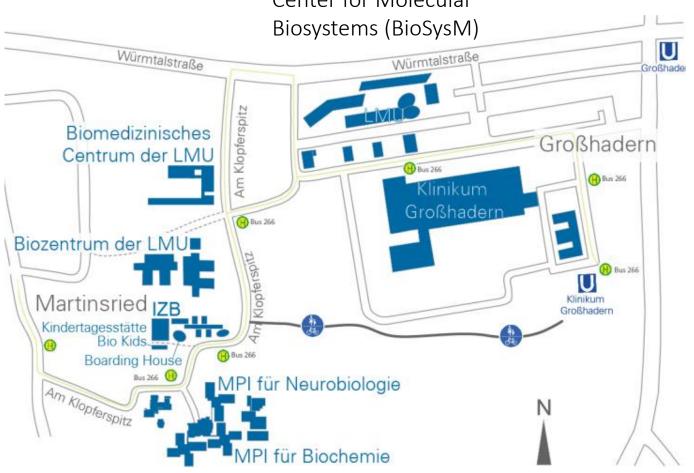
Most of the courses are planned in presence!

Different Campuses.





## High Tech Campus Martinsried Center for Molecular



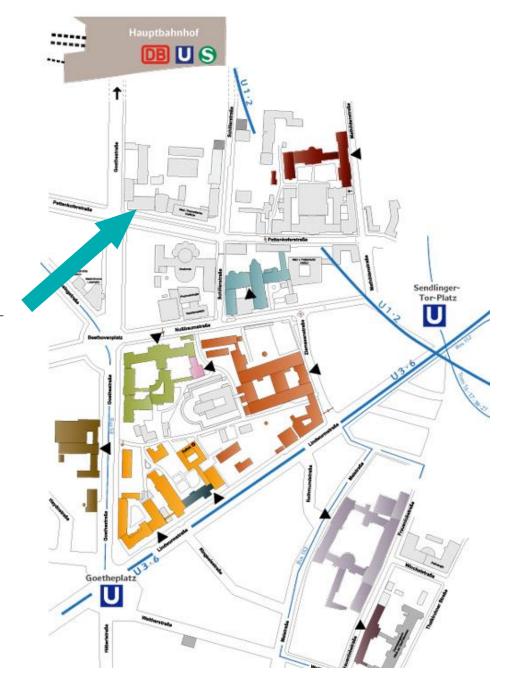




# Medical Campus in downtown Munich

Walther-Straub-Institute of Pharmacology and Toxicology

Goethestr. 33

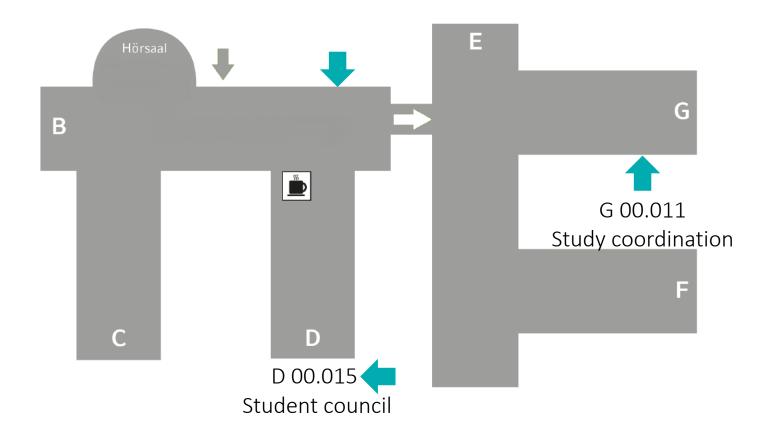






#### Biocenter

#### B 00.059 Examination Office







#### General pointers – Refund of travel to Munich





#### Refund of your tickets for travel to Munich

- —we can reimburse you for the tickets you need for your journey to Munich, regardless of whether you are travelling to us from within the country or from abroad.
- —Please note that <u>first class</u> tickets are <u>non-refundable</u>.
- -Further information sent to you via email.





## General pointers – Study program

#### Health issues

–Missing of exams/practical courses

#### **Exams**

- -Twice per semester
- -1<sup>st</sup> exam and make up exam (improvement)

#### Max. study duration

- -7 semesters
- All exams of the mandatory courses of the first semester have to be passed at the end of the third semester

#### Recognition of credits

From previous courses of study

#### Travel expenses

—Funding of 500 € per student during entire studies

#### Communication (campus – email)

-No private Emails-Addresses!





All information can be found in the study regulations!

(download section of the program websites)

## General pointers

Everything is new!

Cultureshock?!

Ask, ask, ask!!!



Source: warderemunira.medium.com





## General pointers – Cohort representative

#### Tasks of Cohort Representatives

Act as a link between students and faculty



- Communicate concerns and feedback
- Organize meetings and support peers
- Ensure smooth communication with program coordination

We warmly encourage you to elect cohort representatives. The organization of the election is up to you.





#### International students

- •International Student Guide (!) https://www.lmu.de/en/workspace-for-students/international-student-guide/
- •International Office <a href="https://www.lmu.de/en/study/important-contacts/international-office/">https://www.lmu.de/en/study/important-contacts/international-office/</a>
- •Social counselling for international students https://www.lmu.de/en/study/degree-students/applications-for-admission/admissions-consultation/social-counseling/
- •Cultural diversity https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/cultural-diversity/index.html
- •International University Club Munich (IUCM) <a href="https://www.iucm.de/en">https://www.iucm.de/en</a>





## International students

### Social counselling for international students

- Questions concerning general orientation at LMU
- Support with
- Help with finding accommodastarting your studiestion
- Assistance with problems involving the authorities
- Advice on financing your studies
- Guidance on finding the right type of scholarship
- •Referral to the appropriate contact person within or outside the university

Contact: Maj-Catherine Botheroyd-Hobohm

Website: <a href="https://www.lmu.de/en/study/degree-students/applications-for-admission/admissions-consultation/social-counseling/">https://www.lmu.de/en/study/degree-students/applications-for-admission/admissions-consultation/social-counseling/</a>





# Central Student Advisory Service (ZSB)

The ZSB is your point of contact for interdisciplinary topics:

- Study decisions
- Study doubts
- •Time management
- Exam nerves
- Crises

The ZSB offers:

- Workshops
- Lectures
- Individual counseling



Here you can find more information: <a href="https://www.lmu.de/en/study/important-contacts/central-student-advisory-office/">https://www.lmu.de/en/study/important-contacts/central-student-advisory-office/</a>





# Scholarships

•Scholarships overview <a href="https://www.lmu.de/en/workspace-for-students/student-support-services/finance-your-studies/scholarships/">https://www.lmu.de/en/workspace-for-students/student-support-services/finance-your-studies/scholarships/</a>

•Scholarships for international students https://www.lmu.de/en/workspace-for-students/student-support-services/finance-your-studies/scholarships/scholarships-for-international-students/

•Scholarship advisory service <a href="https://www.studierendenwerk-muenchen-oberbayern.de/en/advice-and-counselling-network/scholarship-advisory-service/">https://www.studierendenwerk-muenchen-oberbayern.de/en/advice-and-counselling-network/scholarship-advisory-service/</a>

•Scholarship counselling for international students https://www.lmu.de/en/study/degree-students/applications-for-admission/admissions-consultation/social-counseling/





# Finding a student job

- LMU Job Portal Student assistants https://www.lmu.de/en/about-lmu/working-at-lmu/job-portal/student-assistants/
- •Offers for students during and after their studies https://www.bio.lmu.de/en/study/career-orientation/
- •Offers for tutor jobs at LSF Course catalogue → Faculty of Biology → Offers for tutor jobs https://lsf.verwaltung.uni-muenchen.de/qisserver/rds?state=user&type=0
- •Jobs at LMU Hospital https://www.lmu-klinikum.de/jobs
- Bavarian State Collections of Natural History https://snsb.de/ueber-uns/jobs/jobs/





## Social advisory and support services offered by LMU

•Studying with disabilities: <a href="https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-disability/">https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-disability/</a>

•Studying with a child: https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-child/https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-child/international-student-parents/

•Gender equality and sexual identity: <a href="https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/gender-equality-and-sexual-identity/">https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/gender-equality-and-sexual-identity/</a>

 WeCare@LMU: https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/wecare-lmu/

•And many more services: <a href="https://www.lmu.de/en/workspace-for-students/student-support-services/">https://www.lmu.de/en/workspace-for-students/student-support-services/</a>





# Advice and Counselling Network offered by Studierendenwerk

https://www.studierendenwerk-muenchen-oberbayern.de/en/advice-and-counsellingnetwork/

Advice and counselling offers on different topics, e.g.:

- General advice and social counselling
- Legal advisory service
- International students
- Scholarships
- Psychotherapeutic and Psychosocial Counselling Service





# Women's Representative

•LMU Women's Representative

The LMU Women's Representative supports the university's executive board and faculties in promoting equality for women in academia and offers central measures for promoting equality.

https://www.lmu.de/frauenbeauftragte/en/

Women's Respresentative of the Faculty of Biology

Prof. Dr. Silke Robatzek

The Women's Representatives of the Faculty of Biology support the equality of women and men in the Faculty. The Women's Representative or one of her deputies is represented in every committee of the Faculty of Biology.

https://www.bio.lmu.de/en/about-the-faculty/womens-representatives/





# Social Networking

•Biology Student Council <a href="https://www.fsi.bio.lmu.de/ueber\_uns/index.html">https://www.fsi.bio.lmu.de/ueber\_uns/index.html</a>

•TutoRIA: international student activities <a href="https://www.en.tutoria-international.uni-muenchen.de/ueber\_uns/index.html">https://www.en.tutoria-international.uni-muenchen.de/ueber\_uns/index.html</a>

Erasmus Student Network https://mesa.esn-germany.de/

•Sports: Zentraler Hochschulsport (ZHS) https://www.zhs-muenchen.de/en/zhs/home/

•Student groups https://www.lmu.de/en/workspace-for-students/student-life/student-groups/





## **Examination Office**

#### **Examination Office**

- •Biocenter, B 00.056 and B 00.057
- •bpa@bio.lmu.de
- •Office hours:
- Monday and Friday: 10:00-12:00 h
- Wednesday: 12:00-14:00 h

#### **Examination Committee**

Prof. Dr. Martin Kerschensteiner





## Elite Network of Bavaria

Register for Elite Network Portal: Elitenetzwerk-Community-Portal









# Study coordination

#### Marita Sacher

Study coordinator Elite Master Program "Human Biology - Principles of Health and Disease"

LMU Biocenter, Room G00.011

E-Mail: mhb@bio.lmu.de

Tel. +49-(0)89-2180-74794

My core working hours are 09:00-13:00, Monday – Thursday





# Introduction week - October 6-12, 2025

Date	Topic	Time	Place
Monday, 6.10.			
Tuesday, 7.10.	Intercultural Communication Skills Workshop	9:00 – 12:00	Großhaderner Str. 9, Biomedical Center, N01.013
Wednesday, 8.10.	LMU "Welcome Day" for international degree students	14:00 – 16:00	Event details
Thursday, 9.10.			
Friday, 10.10.	Final assignment of spots for practical courses (online)	Starting at 09:00	Zoom link following soon
Saturday, 11.10.			
Sunday, 12.10.	Orientation week - Brunch Meeting (please register by October 07!)	11:00 – 13:00	<u>Großhad. Str. 4 (G) - G</u> <u>00.031</u>





# Next steps

➤ Tomorrow, October 1, 2025:

09:00 2nd part of the main Introduction – Presentations of research and study areas for new master's students of the Faculty of Biology

- ➤ Introduction Week: October 6-12, 2025
- MHB Brunch: Sunday, October 12, 2025

Keep in Touch!

Enjoy your time!

All the best for your Master's journey at LMU Munich!



