



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



INTRODUCTION TO THE MASTER OF SCIENCE PROGRAMS

Molecular and Cellular Biology (MCB)
Plant Sciences (PLS)



October 7, 2024



Types of courses offered at the Faculty of Biology:

- **Lecture** – (written) exam, 3 ECTS credits
- **Seminar** – presentation, 3 ECTS credits
- **Practical course** – lab report, 3-6 ECTS credits
- **Research course** – lab report and presentation, 12 ECTS

These courses need to be combined in modules.

1st Semester

Mandatory course: Lab Methods in MCB/ PLS/MHB (6 ECTS)		Mandatory course: Computational Biology (6 ECTS)		Option 1 of 7 (6 ECTS)		Methods of Option 1 of 7 (6 ECTS)		2 interdisciplinary courses (3 ECTS each)	
S	P	L	P	L	S	S	P	L/S/P/V	L/S/P/V
Presentation & lab report (graded)		Written exam & lab report (graded)		Written exam & presentation (graded)		Presentation & lab report (graded)		Written exam, lab report or presentation (pass)	

- Option 1 of 7:
- Genetics
 - Human biology
 - Microbiology
 - Cell biology
 - Biology:
 - Plant Sciences
 - EES
 - Neurosciences



**modules have
to be combined**

EES: Evolution, Ecology and Systematics
L: lecture; **P:** practical course; **S:** seminar; **GS:** group seminar **V:** vocational course; **D:** defense; **C:** colloquium

1st Semester

Mandatory course: Lab Methods in MCB/ PLS/MHB (6 ECTS)		Mandatory course: Computational Biology (6 ECTS)		Option 1 of 7 (6 ECTS)		Methods of Option 1 of 7 (6 ECTS)		2 interdisciplinary courses (3 ECTS each)	
S	P	L	P	L	S	S	P	L/S/P/V	L/S/P/V
Presentation & lab report (graded)		Written exam & lab report (graded)		Written exam & presentation (graded)		Presentation & lab report (graded)		Written exam, lab report or presentation (pass)	

**Both modules have
to be combined**

- Option 1 of 7:
- Genetics
 - Human biology
 - Microbiology
 - Cell biology
 - Biology:
 - Plant Sciences
 - EES
 - Neurosciences

**modules have
to be combined**

EES: Evolution, Ecology and Systematics

L: lecture; **P:** practical course; **S:** seminar; **GS:** group seminar **V:** vocational course; **D:** defense; **C:** colloquium

1st Semester

Mandatory course: Lab Methods in MCB/ PLS/MHB (6 ECTS)		Mandatory course: Computational Biology (6 ECTS)		Option 1 of 7 (6 ECTS)		Methods of Option 1 of 7 (6 ECTS)		2 interdisciplinary courses (3 ECTS each)	
S	P	L	P	L	S	S	P	L/S/P/V	L/S/P/V
Presentation & lab report (graded)		Written exam & lab report (graded)		Written exam & presentation (graded)		Presentation & lab report (graded)		Written exam, lab report or presentation (pass)	

**Both modules have
to be combined**

- Option 1 of 7:
 - Plant molecular biology
 - Biotic interactions of plants
 - Systematics
 - Plant cell biology
- Biology:
 - MCB
 - EES
 - Neuroscience

**modules have
to be combined**

October 7 – 11	Introduction week	
October 15 – 18	Computational Biology Part 1	
October 22 – 25	Lab methods Group A	Comp. Biology Part 2 Group B
October 29 – November 1		
November 5 – 8	Comp. Biology Part 2 Group A	Lab methods Group B
November 12 – 15		
November 19 – 22		
November 26 – November 29		
December 3 – 20	Elective courses	
December 23 – January 6	Christmas holidays	
January 7 – February 7	Elective courses	
February 10 – 21	Exam period	
February 25 – March 31	Elective courses	
April 22	Start classes summer semester	

From Oct 15 until Nov 29:

- Mondays: Lectures
- Tuesdays – Fridays (10-17h): Computational Biology and Lab Methods

Monday	Tuesday	Wednesday	Thursday	Friday
LECTURE - DAY	08:00 - 10:00 Lecture slot			
	10:00 - 17:00 Slot for practical courses			
	17:00 - Open end seminar slot			

2nd Semester

Advanced Option 1 of 7 (6 ECTS)		Advanced methods of Option 1 of 7 (6 ECTS)		Research course Option 1 of 7 (12 ECTS)		2 interdisciplinary courses (3 ECTS each)	
L	S	S	P	Research course		GS	L / S / P / V L / S / P / V
L	L						
Written exam & presentation (graded)		Presentation & lab report (graded)		Presentation & lab report (graded)			Written exam, lab report or presentation (pass)

Both modules have to be combined

- Option 1 of 7:
- Genetics
 - Human biology
 - Microbiology
 - Cell biology
 - Biology:
 - Plant Sciences
 - EES
 - Neurosciences

modules have to be combined

EES: Evolution, Ecology and Systematics
 L: lecture; P: practical course; S: seminar; GS: group seminar V: vocational course; D: defense; C: colloquium

3rd Semester

Special methods of Option 1 of 7 (6 ECTS)		Special research module in Option 1 of 7 (15 ECTS)			3 interdisciplinary courses (3 ECTS each)		
S	P	L	Research course	GS	L/S/P/V	L/S/P/V	L/S/P/V
Presentation & lab report (graded)		Lab report & oral exam (graded)			Written exam, lab report or presentation (pass)		

- Option 1 of 7:
- Genetics
 - Human biology
 - Microbiology
 - Cell biology
 - Biology:
 - Plant Sciences
 - EES
 - Neurosciences

modules have to be combined

Both modules have to be combined

EES: Evolution, Ecology and Systematics
 L: lecture; P: practical course; S: seminar; GS: group seminar V: vocational course; D: defense; C: colloquium



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

Master MCB – 4th Semester



4th Semester

Final master's module (30 ECTS)					
Master's thesis (26 ECTS)			D	C	GS
graded			Presentation		

D: disputation (1 ECTS); **C:** colloquium (1.5 ECTS); **GS:** group seminar (1.5 ECTS)

Parts of the curriculum after the first semester:

- **Research courses**
 - Duration: 8 weeks full-time lab work + 1 week preparation of lab report (12 ECTS)
 - You are allowed to do 1 external research course out of 2 research courses (can be the first or second – order irrelevant)
 - External means outside of the faculty (= supervisor is not included in „list of internal supervisors“)
 - An external course abroad is allowed as well
 - **Colloquia** (attending 20 scientific presentations, 1.5 ECTS)
 - **Master's thesis**
- More information on <http://www.mcb.bio.lmu.de/downloads> and on <http://www.pls.bio.lmu.de/downloads>



Course catalogue/ Vorlesungsverzeichnis

www.lsf.lmu.de

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, guests, teachers and employees!



Please note that you can use all the functions in the left column (e.g. the course catalogue or the search for courses) without logging in.

LMU user account

@*campus.lmu.de* or @*lmu.de*

Password

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

Bitte beachten Sie, dass Sie sich ab sofort nach erfolgreichem Login im Wintersemester 2024/25 befinden. Um wieder in das Sommersemester wechseln zu können, klicken Sie bitte auf das aktuelle Semester rechts oben und wählen Sie im Anschluss das gewünschte Semester aus.

Course catalogue (WiSe 2024/25)

- ① [Vorlesungsverzeichnis](#)
- ① [Courses across faculties](#)
- ① [Faculty of Catholic Theology](#)
- ① [Faculty of Protestant Theology](#)
- ① [Faculty of Law](#)
- ① [Faculty of Business Administration](#)
- ① [Faculty of Economics](#)
- ① [Faculty of Medicine](#)
- ① [Faculty of Veterinary Medicine](#)
- ① [Faculty of History and the Arts](#)
- ① [Faculty of Philosophy, Philosophy of Science and Religious Studies](#)
- ① [Faculty of Psychology and Educational Sciences](#)
- ① [Faculty of Cultural Sciences](#)
- ① [Faculty of Languages and Literatures](#)
- ① [Faculty of Social Sciences](#)
- ① [Faculty of Mathematics, Computer Science and Statistics](#)
- ① [Faculty of Physics](#)
- ① [Faculty of Chemistry and Pharmacy](#)
- ① [Faculty of Biology](#)
- ① [Faculty of Geosciences](#)
- ① [Internationale Angelegenheiten](#)



- Edit header structure for lectures
- Add new Courses
- My Participants
- Import of lectures
- Leistungsverbuchung (Exchange)
- Transcript (Exchange)
- Course catalogue**
- Study paths edit
- Master Datenbank
- Veranstaltungen bearbeiten (alle)
- Edit Lecture
- Edit Persons
- Copy Lectures
- University structure
- Search for rooms
- Detailed Roomsearch
- Personendaten zusammenführen
- << Hide menu

Hint: you are in Winter 2024/25 and not in the term which is in planning!

Course catalogue (WiSe 2024/25) View: [short](#) | [medium](#) | [long](#)

Navigation: ➔: show complete tree Link: expand this branch

Alle meine Hörsaalansträge: [Report \(PDF\)](#) Alle meine Veranstaltungen: [Report \(PDF\)](#)

Vorlesungsverzeichnis

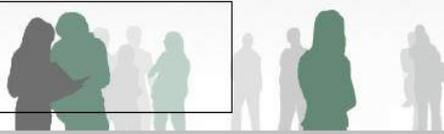
[VVZ](#) **Faculty of Biology**

➔ [VVZ](#) **Courses of the faculty**

	Lect.No.	Lecture	Type	Activity
EDIT	19081	Vorlesung: Berufsbilder in der Biologie - Brachmann , H. Jung	lecture	Platzvergabe Listen E-Mail
EDIT	19082	Inactive Masterverabschiedung - Sauermann	n/a	Platzvergabe Listen E-Mail
EDIT	19083	Inactive Bachelor- und Lehramtsverabschiedung - Bögle-Bassios , Huber	n/a	Platzvergabe Listen E-Mail
➔	VVZ	A) Bachelor Start ab WS 20/21		
➔	VVZ	A) Bachelor Start vor WS 19/20		
➔	VVZ	B) Master Human Biology - principles of health and disease		
➔	VVZ	B) Master Molecular and Cellular Biology		
➔	VVZ	B) Master Neuroscience		
➔	VVZ	B) Master Plant Sciences		
➔	VVZ	B) Master Evolution, Ecology and Systematics		
➔	VVZ	E) Lehramt Start ab WS 20/21		
➔	VVZ	E) Lehramt Start vor WS 20/21		
➔	VVZ	F) Studiengang Bioinformatik		
➔	VVZ	G) Allgemeine Veranstaltungen		
➔	VVZ	H) Nebenfach Start ab WS 20/21		
➔	VVZ	H) Minor in Biology		



LSF – LEHRE STUDIUM FORSCHUNG



Home | Logout acting as: Department | for Fakultät für Biologie

You are here: Home > Home > Course catalogue

- Edit header structure for lectures
- Add new Courses
- My Participants
- Import of lectures
- Leistungsverbuchung (Exchange)
- Transcript (Exchange)
- Course catalogue**
- Study paths edit
- Master Datenbank
- Veranstaltungen bearbeiten (alle)
- Edit Lecture
- Edit Persons
- Copy Lectures
- University structure
- Search for rooms
- Detailed Roomsearch
- Personendaten zusammenführen
- << Hide menu

Hint: you are in **Winter 2024/25** and not in the term which is in planning!

Course catalogue (WiSe 2024/25)

View: **short**

Navigation: → : show complete tree **Link** : expand this branch

Alle meine Hörsaalansträge: [Report \(PDF\)](#) Alle meine Veranstaltungen: [Report \(PDF\)](#)

Vorlesungsverzeichnis

- **VVZ** Faculty of Biology
- **VVZ** Courses of the faculty
- **VVZ** B) Master Molecular and Cellular Biology
- **VVZ** 1. Semester

	Lect.-No.	Lecture	Type	Activity
EDIT	19232	Master Welcome Event - Meilinger	n/a	Platzvergabe Listen E-Mail
EDIT	19233	Inactive Master's Workshop: Intercultural Communication Skills, Oct 7 or Oct 9	workshop	Platzvergabe Listen E-Mail
EDIT	19234	Introduction to Master MCB, PLS, MHB - H. Jung , Nägele , Leonhardt , K. Jung , Leister , Parniske , Osman , Kerschensteiner	introductory course	Platzvergabe Listen E-Mail
	→ VVZ	P1 Lab methods in molecular and cellular biology		
	→ VVZ	P2 Computational biology in molecular and cellular biology		
	→ VVZ	WP1-3 Genetics		
	→ VVZ	WP4-6 Human biology		
	→ VVZ	WP7-9 Microbiology		
	→ VVZ	WP10-12 Cell biology		
	→ VVZ	WP13-15 Plant sciences		
	→ VVZ	WP17-20 Neurobiology		
	→ VVZ	WP21-23 Evolution, Ecology and Systematics		
	→ VVZ	WP24-31 Elective courses		
	→	Practical courses INAKTIV		
	→	Seminars INAKTIV		

Hint: you are in *Winter 2024/25* and not in the term which is in planning!

Course catalogue (WiSe 2024/25)

Navigation:

→ : show complete tree

Link : expand this branch

Alle meine Hörsaalnrträge: [Report \(PDF\)](#)

Alle meine Veranstaltungen: [Report \(PDF\)](#)

Vorlesungsverzeichnis

VVZ Faculty of Biology

→ VVZ Courses of the faculty

→ VVZ B) Master Molecular and Cellular Biology

→ VVZ 1. Semester

→ VVZ WP1-3 Genetics

	Lect.-No.	Lecture	Type	Activity
EDIT	19024	Lecture: Molecular virology (part I: basic virology) - Nößner, Baldauf, Baiker, Brack-Wemer, Moosmann, PD Dr. med. Bugert	lecture	Pplatzvergabe Listen E-Mail
EDIT	19164	Seminar: Food & Genes - Robotzek, Rybak	seminar	Pplatzvergabe Listen E-Mail
EDIT	19183	Lecture: Human genomics - Enard, Heilmann	lecture	Pplatzvergabe Listen E-Mail
EDIT	19188	Seminar: DNA-Repair - Friedl	seminar	Pplatzvergabe Listen E-Mail
EDIT	19241	HiFi-based assemblies - N. N., Schneeberger	research internship	Pplatzvergabe Listen E-Mail
EDIT	19245	eLecture: Methods in Molecular Biology Part 1 - Meilinger, Hann	lecture	Pplatzvergabe Listen E-Mail
EDIT	19252	Seminar: Genetics and Society (The human genome and its implications for mankind) - seminar longitudinal to the lecture genomes and genomics - Parniske, Hann, Becker	seminar	Pplatzvergabe Listen E-Mail
EDIT	19284	Lecture: Genomes and Gene regulation - Weiberg, Becker	lecture	Pplatzvergabe Listen E-Mail
EDIT	19285	Seminar: Computational genetics - N. N., Schneeberger	seminar	Pplatzvergabe Listen E-Mail
EDIT	19286	Practical course and Seminar: How to design experiments and write a project proposal - Parniske, Marin Arancibia, Hann	exercise course	Pplatzvergabe Listen E-Mail
EDIT	19287	Practical course Biological engineering - Robotzek	exercise course	Pplatzvergabe Listen E-Mail
EDIT	19288	Lecture: Biological engineering - Robotzek	lecture	Pplatzvergabe Listen E-Mail

- A course is mentioned in two or more topics → The course can be used in different modules, **but only once**.
- For example:
The lecture “Virology” is part of genetics, microbiology, and cell biology.
- No mention of ECTS credits in the short comments:

Lectures/seminars with
2 SWS

• You will receive: **3 ECTS**

Lectures with
4 SWS

• You will receive: **6 ECTS**

Practical courses with
- 3 SWS
- 6 SWS
- 12 SWS

• You will receive:
- **3 ECTS**
- **6 ECTS**
- **12 ECTS**

- Excursions are regarded as practical courses.

Course catalogue/ Vorlesungsverzeichnis

www.lsf.lmu.de

You can sign up for courses offered in the winter semester 2024/2025 until **Sunday, October 13, 2024 (23:59h CEST)**.

Seminars/Practical courses

- you need to sign up via the LSF website

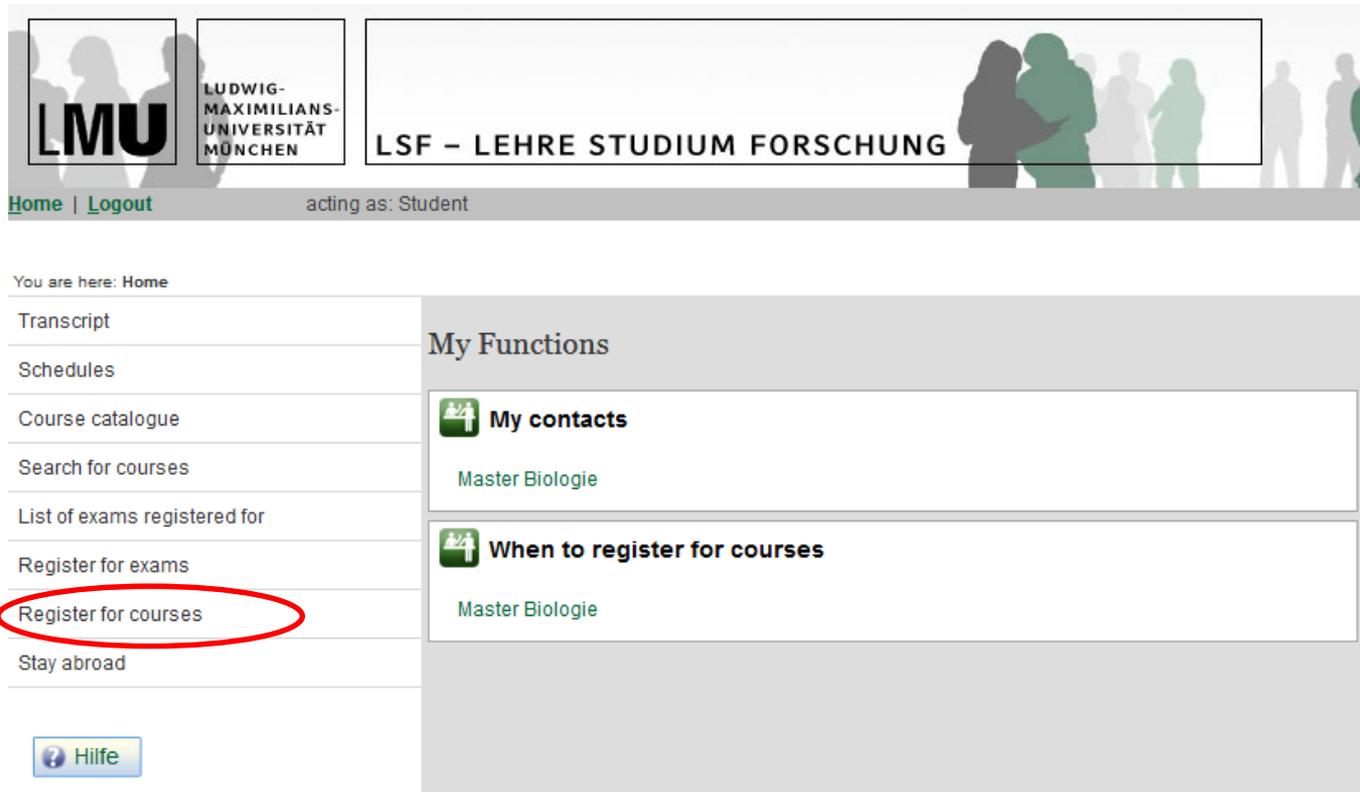
Lectures

- no registration required

Research courses

- contact group leaders directly
- even if a research course is mentioned in LSF

1. Please visit the LSF system at: www.lsf.lmu.de.
2. Login with your LMU user data.
3. Select **English version** (on the top right of the page).
4. Select **Register for courses** (Lehrveranstaltungen belegen/abmelden).



[Home](#) | [Logout](#) acting as: Student

You are here: [Home](#)

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

[? Hilfe](#)

My Functions

 **My contacts**

[Master Biologie](#)

 **When to register for courses**

[Master Biologie](#)



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

acting as: Student

You are here: [Home](#) ▶ [Register for courses](#)

[Transcript](#)

[Schedules](#)

[Course catalogue](#)

[Search for courses](#)

[List of exams registered for](#)

[Register for exams](#)

[Register for courses](#)

[Stay abroad](#)

<< [Hide menu](#)



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 studie

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 to c

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

Accept terms

I accept

[Next](#)



Register for courses

7001 seminars
Choice: 1 from 50

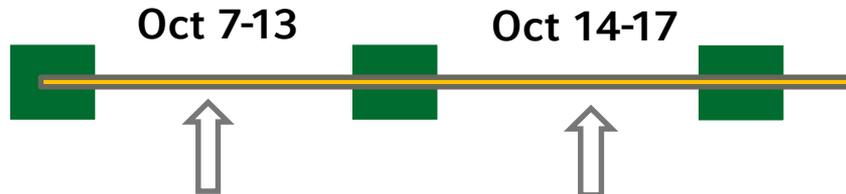
- Register Priority:  Seminar: Mechanisms of plant gene regulation
- Register Priority:  Seminar: From centrioles to microcephaly
- Register Priority:  Seminar: Stem cells
- Register Priority:  Seminar: Microbial Physiology and Synthetic Biology
- Register Priority:  Seminar: Design of experiments in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

General pointers:

- You do not have to apply via the LSF for the mandatory courses „Lab Methods“ and „Computational Biology“ (as a first semester MCB or PLS master’s student, you are already registered for these courses).
- Please only apply for practical courses and seminars that will take place after **November 29, 2024**
- you will attend the mandatory courses „Lab Methods“ and „Computational Biology“ until then.

Practical course
application
(by students)

Distribution of spots
(by study coordinators)



Introduction
1st year students

Study coordinators distribute spots for practical courses based on the following criteria:

- Priority (chosen by the student),
- Seniority (which semester),
- How many spots have already been assigned to a student, students with a lower number of assigned courses will be prioritized.

**If less spots are offered than there are applicants,
a draw will take place.**

Practical course
application
(by students)

Distribution of
spots (by study
coordinators)

**Meeting for
final distribution
of spots**

Oct 7-13

Oct 14-17



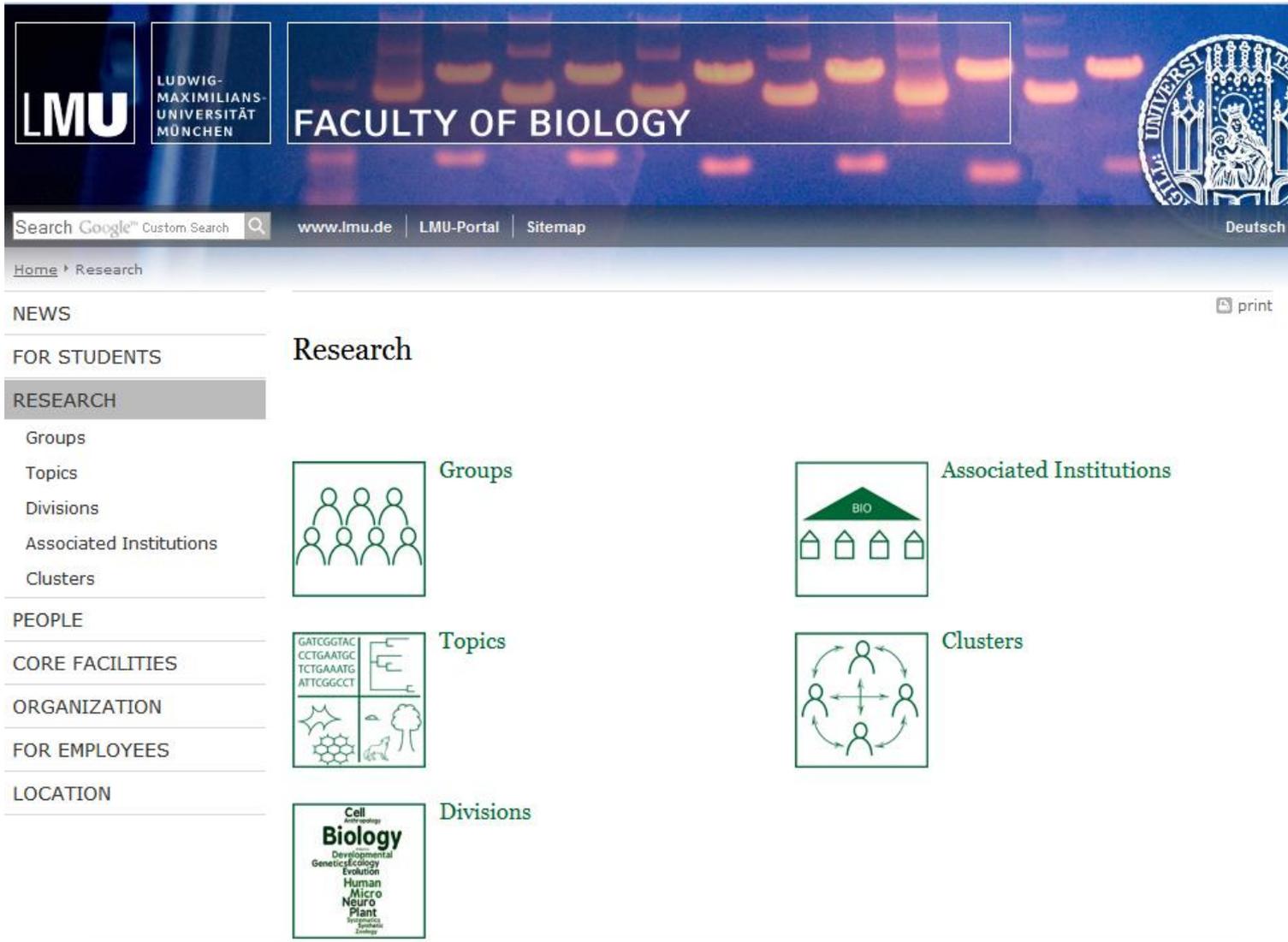
Friday, October 18, 2024
@8:30h by Zoom meeting

During this Zoom meeting:

- A list with the preliminary participants of each course will be presented.
- Students need to confirm the offered spot for a course.
- If there are any open spots left, they will be distributed.

All students that applied for a practical course **need to attend (or ask someone to represent them)!**

You will receive a link to the Zoom meeting by e-mail.



LMU LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

FACULTY OF BIOLOGY

Search Google™ Custom Search www.lmu.de | [LMU-Portal](#) | [Sitemap](#) Deutsch

[Home](#) > [Research](#)

NEWS

FOR STUDENTS

RESEARCH

- Groups
- Topics
- Divisions
- Associated Institutions
- Clusters

PEOPLE

CORE FACILITIES

ORGANIZATION

FOR EMPLOYEES

LOCATION

Research

Groups



Associated Institutions



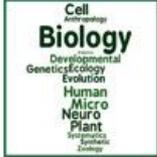
Topics



Clusters



Divisions



NEWS

FOR STUDENTS

RESEARCH

Groups

Topics

Divisions

Associated Institutions

Clusters

PEOPLE

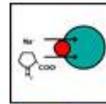
CORE FACILITIES

ORGANIZATION

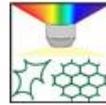
FOR EMPLOYEES

LOCATION

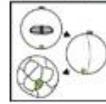
Topics



Biochemistry



Cell Biology



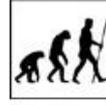
Developmental Biology



Ecology



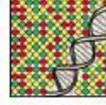
Epigenetics



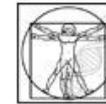
Evolutionary Biology



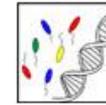
Genetics



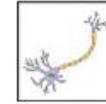
Gene Regulation



Human Biology



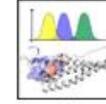
Microbiology



Neurobiology



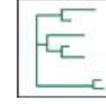
Plant Sciences



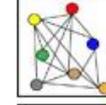
Protein Biochemistry



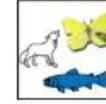
Synthetic Biology



Systematics



Systems Biology



Zoology

Winter semester 2024/25: October 1, 2024 – March 31, 2025

Christmas break: December 20, 2024 – January 6, 2025

Summer semester 2025: April 1 – September 30, 2025

Semester	Lecture start date	Lecture end date
Winter semester 2024/2025	October 14, 2024	February 7, 2025
Summer semester 2025	April 23, 2025	July 25, 2025
Winter semester 2025/2026	October 13, 2025	February 6, 2026
Summer semester 2026	April 13, 2026	July 17, 2026
Winter semester 2026/2027	October 12, 2026	February 5, 2027

- Registration of residence at the “Kreisverwaltungsreferat” (KVR) or „Bürgerbüro“
- Health issues
 - Missing of lectures, seminars or practical courses
 - Missing of exams
- Exams
 - How many chances
 - Improving exam grades
- Maximum study duration
- Acknowledgement of courses previously taken (you have to apply until the end of your 1st semester with the examination office)
- Email-Account: **activate** campus email-address and **use** @campus.lmu.de address for **all LMU-communication**

- Erasmus internship or study abroad
www.lmu.de/international/auslandsstudium
- interdisciplinary Moodle course “impACTup!: Innovation and Entrepreneurship for Better Futures”!

"WeCare@LMU"

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

wide range of services for students with disabilities, chronic and mental illnesses e.g.
disadvantage compensation, extension of time for exams

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

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

Contact:

www.lmu.de/barrierefrei

behindertenberatung@lmu.de

➤ Inclusion tutors

Specifically trained students provide support for students

www.lmu.de/inklusionstutoren
inklusionstutoren@verwaltung.uni-muenchen.de

➤ Barrier-free Peer-Groups

Discussion panels / personal exchange and networking
Meetings (online and in person)
Support in case of specific and individual problems

➤ IBS

Interest group of disabled and non-disabled students (involvement in university politics):

www.lmu.de/IBS

Studying with a child



Student support services
„STUDYING WITH A CHILD“

For all questions regarding studying with child(ren)

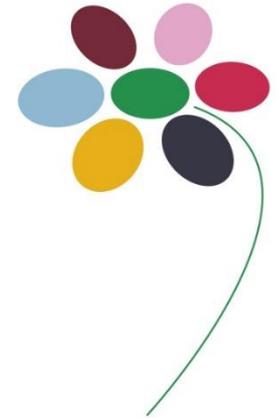


Service-Hotline: 089 / 2180-3124

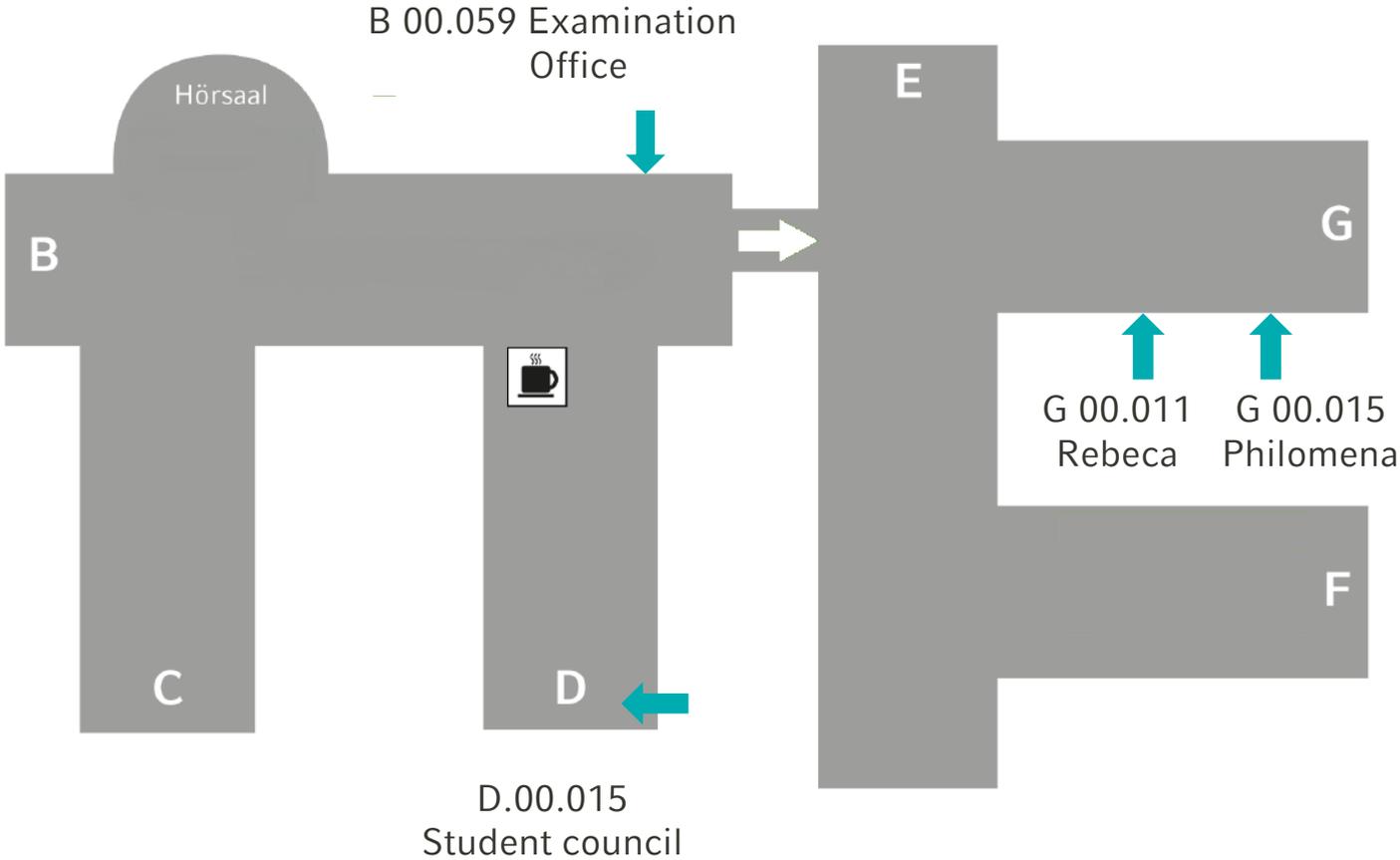
E-Mail : studierenmitkind@lmu.de

Please visit our website:

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



Biocenter



University Sports Center Munich (ZHS) Winter 2024/25

