



LUDWIG-
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INTRODUCTION TO THE MASTER OF SCIENCE PROGRAMS

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



October 9, 2023



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

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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**

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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 9 – 13	Introduction week	
October 17 – 20	Computational Biology Part 1	
October 24 – 27	Lab methods Group A	Comp. Biology Part 2 Group B
October 31 – November 3		
November 7 – 10	Comp. Biology Part 2 Group A	Lab methods Group B
November 14 – 17		
November 21 – 24		
November 28 – December 1		
December 4 – 22	Elective courses	
December 23 – January 7	Christmas holidays	
January 8 – February 9	Elective courses	
February 12 – 23	Exam period	
February 12 – March 31	Elective courses	
April 15 (leap year)	Start classes summer semester	

From Oct 16 until Dec 1:

- 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

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 - 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



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Master MCB – 4th Semester



4th Semester

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

D: defense (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“)
 - External in other countries 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



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Course catalogue



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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 login in.

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@campus.lmu.de or @lmu.de

Password

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Course catalogue (WiSe 2023/24)






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- [i Faculty of Catholic Theology](#)
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 [Faculty of Biology](#)
 [Courses of the faculty](#)

<u>Lect.No.</u>	<u>Lecture</u>	<u>Type</u>	<u>Activity</u>
19055	Vorlesung: Berufsbilder für BiologInnen - Brachmann, H. Jung	lecture	

 [A\) Bachelor Start ab WS 20/21](#)
 [A\) Bachelor Start vor WS 19/20](#)
 [B\) Master Human Biology - principles of health and disease](#)
 [B\) Master Molecular and Cellular Biology](#)
 [B\) Master Neuroscience](#)
 [B\) Master Plant Sciences](#)
 [B\) Master Evolution, Ecology and Systematics](#)
 [E\) Lehramt Start ab WS 20/21](#)
 [E\) Lehramt Start vor WS 20/21](#)
 [F\) Studiengang Bioinformatik](#)
 [G\) Allgemeine Veranstaltungen](#)
 [H\) Nebenfach Start ab WS 20/21](#)
 [H\) Minor in Biology](#)



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Bitte beachten Sie, dass Sie sich ab sofort nach erfolgreichem Login im Wintersemester 2023/24 befinden. Um wieder in das Sommersemester wechseln zu können

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- ① [Vorlesungsverzeichnis](#)
- ① [Faculty of Biology](#)
 - ① [Courses of the faculty](#)
 - ① [B\) Master Molecular and Cellular Biology](#)
 - ① [1. Semester](#)

Lect. No.	Lecture
19200	Master Welcome Event - Meilinger
19202	Introduction to Master MCB, PLS, MHB - H. Jung , Leonhardt , K. Jung , Leister , Parniske , Starck

- ① [P1 Lab methods in molecular and cellular biology](#)
- ① [P2 Computational biology in molecular and cellular biology](#)
- ① [WP1-3 Genetics](#)
- ① [WP4-6 Human biology](#)
- ① [WP7-9 Microbiology](#)
- ① [WP10-12 Cell biology](#)
- ① [WP13-15 Plant sciences](#)
- ① [WP17-20 Neurobiology](#)
- ① [WP21-23 Evolution, Ecology and Systematics](#)
- ① [WP24-31 Elective courses](#)
- ① [Practical courses](#)
- ① [Seminars](#)





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① [Vorlesungsverzeichnis](#)

① [Faculty of Biology](#)

① [Courses of the faculty](#)

① [B\) Master Molecular and Cellular Biology](#)

① [1. Semester](#)

① [WP1-3 Genetics](#)

Lect.- No.	Lecture
19023	Lecture: Molecular virology (part I: basic virology) , Baldauf , Baiker , Brack-Werner
19134	Seminar: Food & Genes , Rybak
19150	Lecture: Human genomics - Enard , Hellmann
19156	Seminar: DNA-Repair - Friedl
19213	Seminar: Computational genetics - N. N. , Schneeberger
19214	eLecture: Methods in Molecular Biology Part 1 - Meilinger , Hann
19215	HiFi-based assemblies - N. N. , Schneeberger
19216	Lecture: Genomes and Gene regulation , Becker
19217	Practical course Biological engineering
19218	Practical course and Seminar: How to design experiments and write a project proposal - Parniske , Hann
19219	Lecture: Biological engineering
19220	Seminar: Genetics and Society (The human genome and its implications for mankind) - seminar longitudinal to the - Parniske , Hann , Becker

- 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 2023/2024 until **Sunday, October 15, 2023 (23:59h CEST)**.

Seminars/Practical courses

- you need to sign up via the LSF website

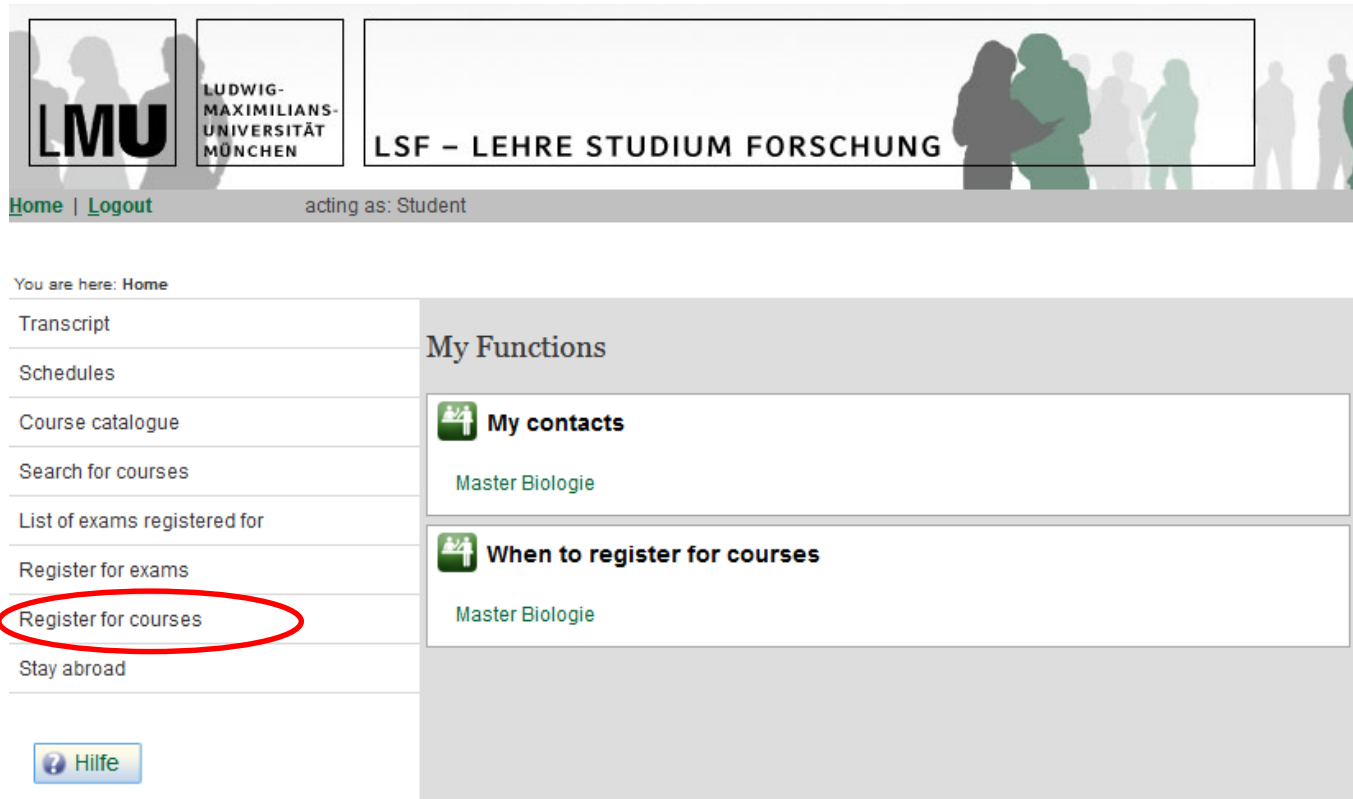
Lectures

- 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).




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- Transcript
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- List of exams registered for
- Register for exams
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[Course catalogue](#)

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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

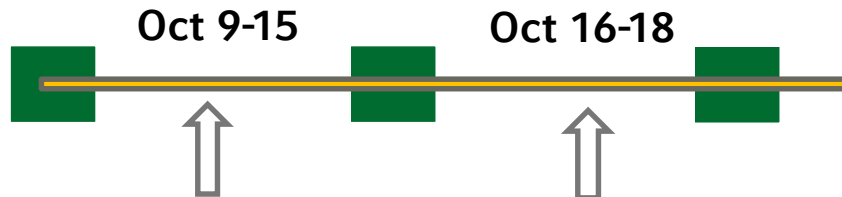
- Register Priority:  Seminar: Mechanisms of plant gene regulation
- Register Priority:  Seminar: From centrioles to microcephaly
- Register Priority:  Seminar: Stem cells
- Register Priority:  Seminar: Microbial Physiology and Synthetic Biology
- Register Priority:  Seminar: Design of experiments in 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 **December 1, 2023**
- 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 9-15

Oct 16-18



Friday, October 20, 2023
@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.



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FACULTY OF BIOLOGY

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- [Topics](#)
- [Divisions](#)
- [Associated Institutions](#)
- [Clusters](#)

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ORGANIZATION

FOR EMPLOYEES

LOCATION

Research

Groups

Associated Institutions

Topics

Clusters

Divisions

print

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RESEARCH

Groups

Topics

Divisions

Associated Institutions

Clusters

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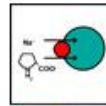
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ORGANIZATION

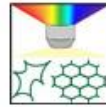
FOR EMPLOYEES

LOCATION

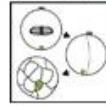
Topics



Biochemistry



Cell Biology



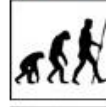
Developmental Biology



Ecology



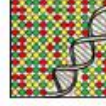
Epigenetics



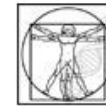
Evolutionary Biology



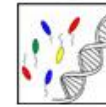
Genetics



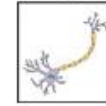
Gene Regulation



Human Biology



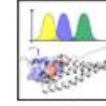
Microbiology



Neurobiology



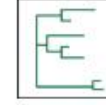
Plant Sciences



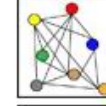
Protein Biochemistry



Synthetic Biology



Systematics



Systems Biology



Zoology

Winter semester 2023/24: October 1, 2023 – March 31, 2024

Christmas break: December 23, 2023 – January 7, 2024

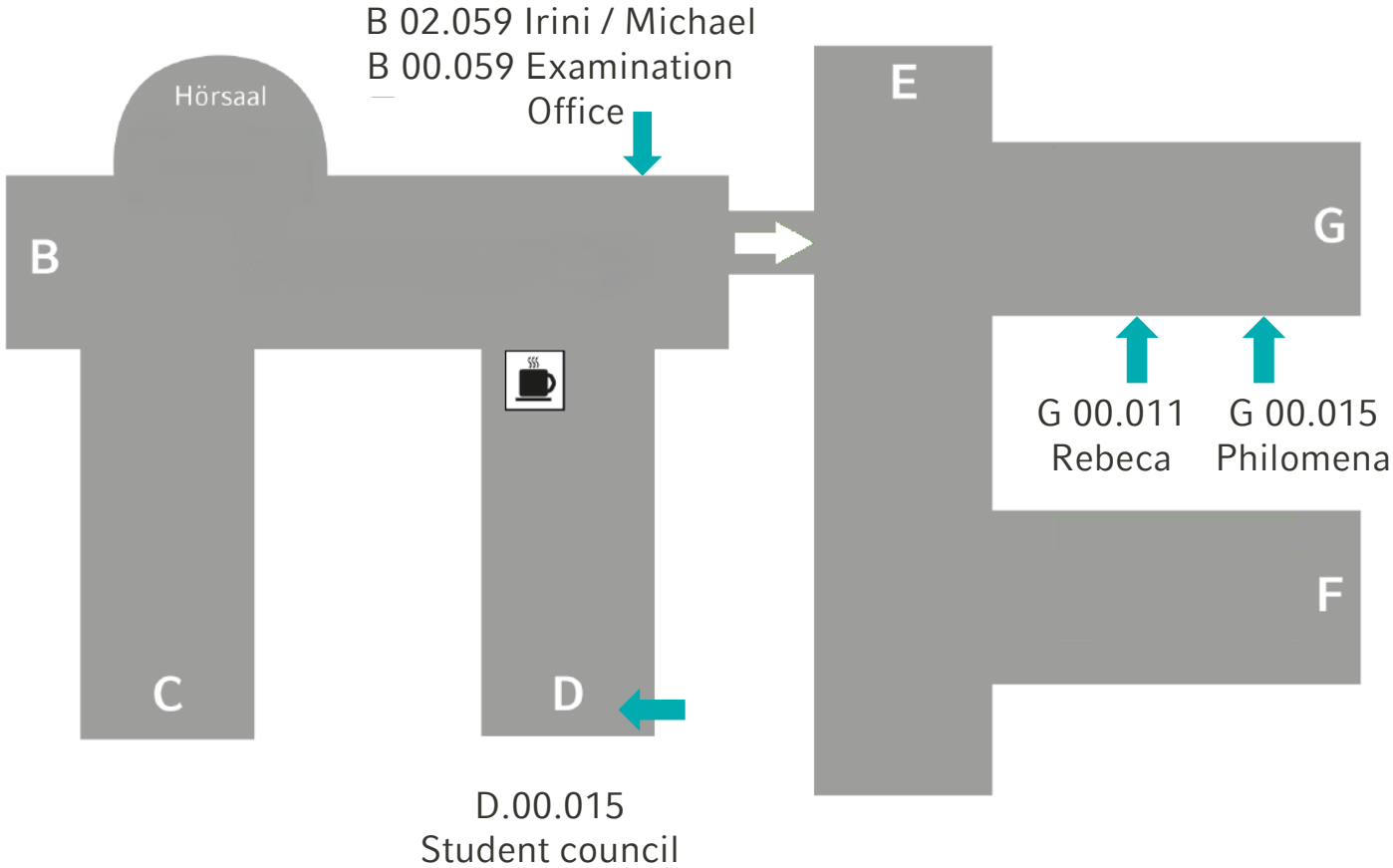
Summer semester 2024: April 1 – September 30, 2024

Semester	Lecture start date	Lecture end date
Winter semester 2023/2024	October 16, 2023	February 9, 2024
Summer semester 2024	April 25, 2024	July 19, 2024
Winter semester 2024/2025	October 14, 2024	February 7, 2025
Summer semester 2025	April 22, 2025	July 25, 2025
Winter semester 2025/26	October 13, 2025	February 6, 2026

Other important things:

- 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 in first semester)
- Email
 - Account (activate @campus.lmu.de address)
 - Contact (use @campus.lmu.de address for all LMU-communication)
 - WiFi on campus (www.lrz.de)
- Erasmus internship or study abroad (information session)

Biocenter



University Sports Center Munich (ZHS) Winter 2023/24

