

Master's program in Evolution, Ecology & Systematics

Cohort 18

Winter semester 2024/2025



GeoBio-
Center
LMU München



ZOOLOGISCHE
STAATSSAMMLUNG
MÜNCHEN



MAX PLANCK INSTITUTE
FOR BIOLOGICAL INTELLIGENCE



staatliche
naturwissenschaftliche
sammlungen bayerns

1472 The Bavarian state university is founded by Duke Ludwig the Wealthy in Ingolstadt

1800 Transfer to Landshut

1802 named "Ludwig-Maximilians-Universität" after its founder Ludwig the Wealthy and Elector Max IV Joseph (later King Maximilian I)

1826 King Ludwig I transfers the university to the city of the royal residence Munich

Today

Successful in the Excellence Initiative,
promoting top-level university research

THE World University Rankings 2024:

worldwide # 38

LMU in Germany # 2



Students: ~53,000

International
students: ~10,700

Professors: ~827

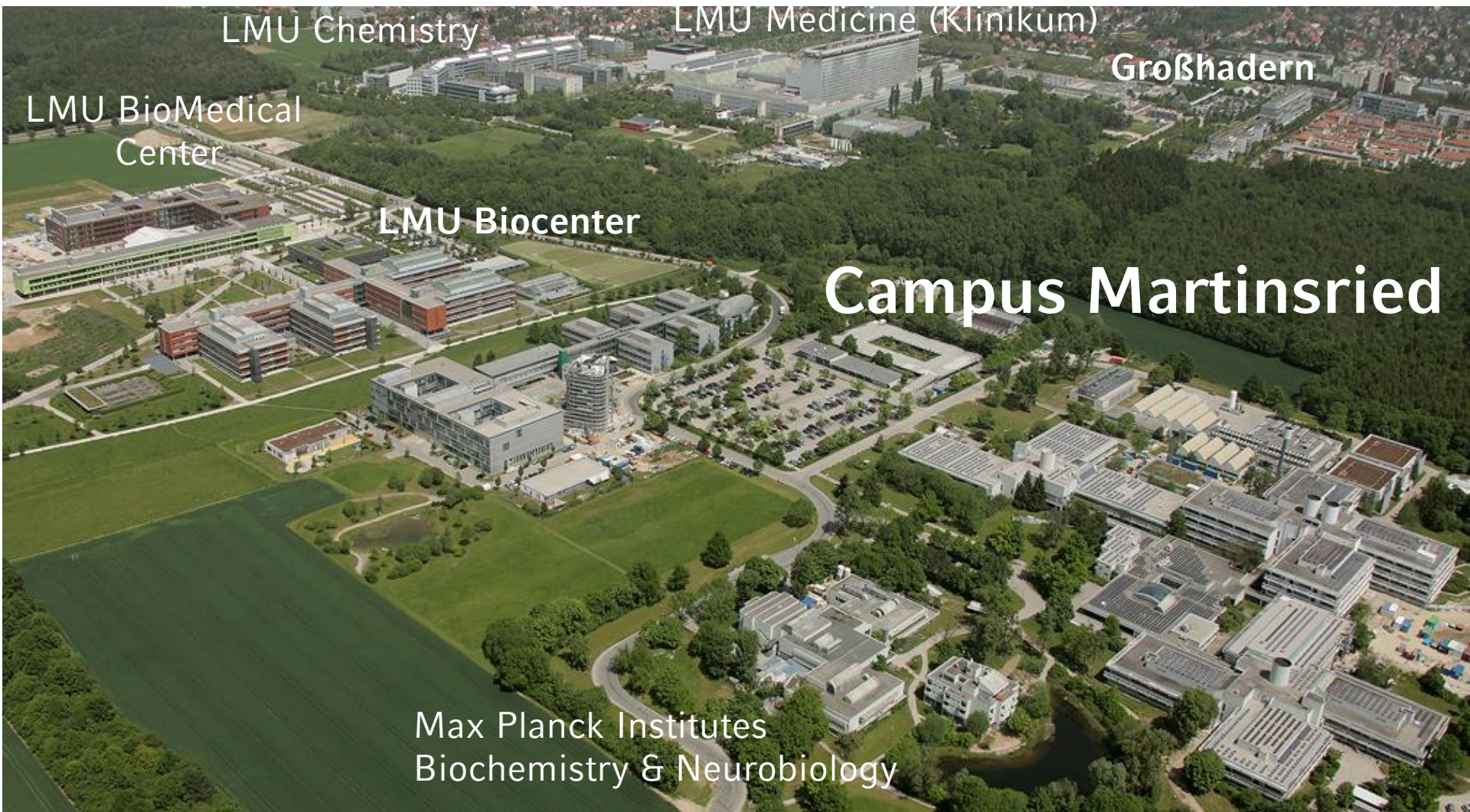
Academic staff: ~4,000
(incl. Medical Center)

Faculties: 18



Courses on ca. 150 subjects and a vast number of combinations:
*Humanities, Law, Economic and Social Sciences, Medicine, Natural
Sciences*







The sculpture „Batterie“ by Gregor Passens

„... a fascinating inversion of a
victory arch as a symbol of new
ideas and unconventional
thought processes ...“





Lecture halls
B00.019, B01.019,
B01.027

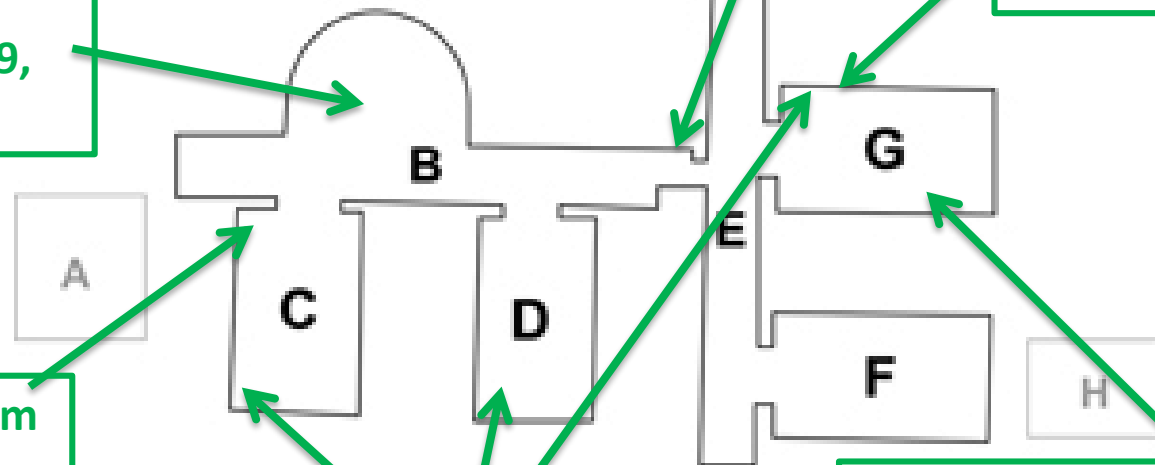
Computer room
C00.001

Seminar rooms
C00.013, D00.013, G00.031

**Examination
office B00.057**

Computer rooms
G00.037, G00.039

Coordination Office
Philomena Bodensteiner
G00.015






General information EES

- Two-year Master's degree in Evolution, Ecology and Systematics (EES)
- Focus on organismic biology in the core disciplines of Ecology, Evolution and Systematics
- 2007 start of the master's program
- Award winner with its innovative teaching program
- Re-accreditation awarded in 2020
- Accreditation is valid until September 30, 2028.
- www.ees.bio.lmu.de (information for current students: *download*)

Exam Regulations

The current EES Exam Regulations were taken into effect from the start of the semester. The EES credits needs to be conducted in the different modules (pass/fail).

Downloads

-  [Exam Regulations valid start WS 18/19 or later \(in German\)](#)
-  [Exam Regulations valid till start WS 17/18 \(in German\)](#)
-  [Program Catalog for old study regulation till start WS 17/18](#)

Prüfungs- und Studienordnung der Ludwig-Maximilians-Universität München für den Masterstudiengang Evolution, Ecology and Systematics (2018)

Vom 29. November 2019

Overview EES curriculum

4.	Master Thesis & Disputation					20 talks AGs
3.	Research project	Sk4	Sem&Dis EES	Free choice of courses		
2.	Research project	Sk3	Exc, Sem & Dis Global change	Stat. 2	Free choice of courses	
1.	Research project	Sk2	Stat. 1 Sk1	Evol. Genetics	Evol Ecology	Systematic Data and Evidence

Master EES semester 1

ECTS - Credits

Mandatory		3 out of 9 modules to be selected (minimum 2 EES-modules)			9 credits to be selected		
Analysis 3 Credis		Evolution 6 Credits	Ecology 6 Credits	Systematics 6 Credits	Internal Research Training IRT 1 EES, MCB, PLS or Neuro 9 Credits		
L	Sk 1	Lecture	Lecture	Lecture	Research Course		Sk 2
Pres graded		Exam graded	Exam graded	Exam graded	Project report and Presentation graded		
Semester 1			Zoology 6 Credits		L EES 3 Credits	Sem EES 3 Credits	Pract EES 3 Credits
			Lecture	Practical	Lecture	Seminar	Practical
			Exam and Presentation		Exam	Pres	Lab Report
			MCB, PLS, Neuro 6 Credits		Sem & Dis 1	MCB, PLS or Neuro 6 Credits	
			Lecture	L / Sem	Seminar	Lecture	L / Sem
			Seminar	Practical	Pres	Seminar	Practical
		Lecture		Exam and/or Presentation or Lab Report			
		Exam and/or Presentation or Lab Report					

L: Lecture; Sem.: Seminar; Sem & Dis: Seminar and Discussion; Sk: Skills Course; Pres: Presentation;

MCB: MSc. in Molecular and Cellular Biology; PLS: MSc. in Plant Sciences; Neuro: MSc in Neurosciences

Master EES semester 2

Semester 2	Mandatory					21 Credits to be selected									
	Statistics 3 Credits		Ecosystems and Or- ganismic Interactions 6 Credits			Internal Research Training IRT 2 EES, MCB, PLS or Neuro 12 Credits						Lecture and Practical EES 6 Credits			
	Lecture	Pr	Sem	Exc	Sem & Dis 2	Research course Project Report and Poster						Sk 3	Lecture	Practical	
	Exam		Presentation + Report									Exam and Presentation			
	L EES 3 Credits		L EES 3 Credits		L EES 3 Credits	Sem EES 3 Credits	Sem EES 3 Credits	Pr EES 3 Credits	Pr EES 3 Credits						
	Lecture		Lecture		Lecture	Seminar	Seminar	Practical	Practical						
	Exam		Exam		Exam	Pres	Pres	Lab Report	Lab Report						
							MCB, PLS or Neuro 6 Credits		MCB, PLS or Neuro 6 Credits						
						Lecture	L / Sem	Lecture	L / Sem						
						Seminar	Practical	Seminar	Practical						
						Exam and/or Presen- tation or Lab Report				Exam and/or Presen- tation or Lab Report					

Exc: Excursion; L: Lecture; Pr: Practical Course; Sem: Seminar; Sem & Dis: Seminar and Discussion; Sk: Skills Course; Pres: Presentation
 MCB: MSc. in Molecular and Cellular Biology; PLS: MSc. in Plant Sciences; Neuro: MSc in Neurosciences

Master EES semesters 3 and 4

Semester 3	Mandatory	Mandatory	15 credits to be selected						
	Sem & Dis 3	Internal Research Training IRT 3 EES, MCB, PLS or Neuro 12 Credits	L EES 3 Credits	L EES 3 Credits	Sem EES 3 Credits	Sem EES 3 Credits	Pr EES 3 Credits		
	Seminar	Research course	L	Pr	Lecture	Seminar	Seminar	Practical	
	Pres	Project Report and Presentation	Exam + Pres	Exam	Pres	Pres	Pres	Lab Report	
			L. Bio 3 Credits	Sem. Bio 3 Credits	Pract. Bio 3 Credits	MCB, PLS or Neuro 6 Credits			
			Lecture	Seminar	Practical	Lecture	L / Sem.		
			Exam	Pres.	Lab Report	Seminar	Practical		
			Exam and/or Pres or Lab Report						
Semester 4	Master Completion Module							Acc. Courses	
	Master thesis 26 Credits							Di	Co GS
	graded							gr	Pres

L: Lecture; Pr: Practical Course; Sem: Seminar; Sem & Dis: Seminar and Discussion; Sk: Skills Course; Pres: Presentation; gr: graded;

GS: LabGroup Seminar; Co: Colloquium; MCB: MSc. in Molecular and Cellular Biology; PLS: MSc. in Plant Sciences; Neuro: MSc in Neurosciences

Lab visits and independent research projects

- Every master's student is required to carry out at least two individual research trainings (IRTs), most conduct three.
- Students can decide whether to do IRT1 or IRT2 (or both).
- IRT 3 is mandatory.
- One of the two mandatory IRTs can be external.
- A project is considered as external if the supervisor is not included in the "[list of internal supervisors](#)".

Research Groups and Staff

Ecology



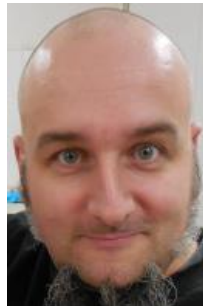
Behavioural
Ecology



Aquatic
Ecology

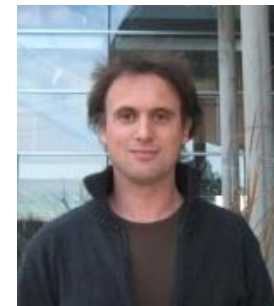
Evolutionary
Ecology

Zoomorphology



Evolutionary Biology

Evolutionary
and Ecological
Genetics



Statistical
Genetics

Evolutionary &
Functional Genomics





Organismic Adaptation (CORA)



Systematics, Biodiversity & Evolution of Plants



Behavioural Ecology & Evolutionary Genetics



Molecular Geo- & Paleobiology, Phylogenetics, Freshwater & Marine Biology



ZOOLOGISCHE
STAATSSAMMLUNG
MÜNCHEN

Systematic Zoology, Marine Biology



Behavioural Neurobiology

Study cycle in 1 year

- LMU winter semester WiSe: October 1 – March 31
- LMU summer semester SuSe : April 1 – September 30
- Lecture time WiSe 24/25: October 14, 2024 – February 7, 2025
- Christmas break 2024: December 24, 2024 – January 6, 2025
- Lecture time SuSe 2025: April 23 – July 25, 2025
- Examinations: Usually 2 are offered for any course per semester, the first (usually) at the end of the lecture time, the second 4-6 weeks later; 1 option to improve the grade at the next opportunity the (for the first time passed) examination is offered.

Other EES “events”

- EES Seminar Series
 - international speakers
 - meet the speaker
- annual EES-Conference, on October 15, 2024
- annual IRT1 & IRT3 Conferences, usually in March
- Social Media
twitter/X, instagram



Samantha Patrick, University of Liverpool



Katie Peichel, University of Bern



Robert Page, Arizona State University

1st semester schedule:

Mandatory and elective courses

Day	Time	Course	Room
Monday	8:30-10:00	Evolutionary Ecology (lecture)	B 01.027
	10:30-12:00	Evolutionary Genetics (lecture)	B 01.027
	12:30-14:00	Skills 1: Presentation/Skills 2: Sci. Writing	
	14:00-15:30	EES Seminar Series: Meet the speaker	B 02.015
	15:30-17:30	EES Seminar	B 01.027
Tuesday	8:30-10:00	Evolutionary Ecology (lecture)	B 01.027
	10:30-12:00	Evolutionary Genetics (lecture)	B 01.027
Wednesday	8:30-10:00	Skills 1: Presentation/Skills 2: Sci. Writing	
	13:00-14:30	Mathematical Basics for EES students	B 01.027
Thursday	9:00-10:30	Mathematical Basics for EES students	B 01.027
Friday	10:00-14:00	Systematic Data & Evidence (lecture)	N 02.017

Master EES semester 1

ECTS - Credits

Mandatory		3 out of 9 modules to be selected (minimum 2 EES-modules)			9 credits to be selected		
Semester 1	Analysis 3 Credis	Evolution 6 Credits	Ecology 6 Credits	Systematics 6 Credits	Internal Research Training IRT 1 EES, MCB, PLS or Neuro 9 Credits		
	L Sk 1	Lecture	Lecture	Lecture	Research Course		Sk 2
	Pres graded	Exam graded	Exam graded	Exam graded	Project report and Presentation graded		
		<div><div>Zoology 6 Credits</div><div>LecturePractcal</div><div>Exam and Presentation</div></div>			L EES 3 Credits	Sem EES 3 Credits	Pract EES 3 Credits
					Lecture	Seminar	Practical
				Exam	Pres	Lab Report	
		<div><div>MCB, PLS, Neuro 6 Credits</div><div>LectureL / Sem</div><div>SeminarPractical</div><div>Lecture</div><div>Exam and/or Presen- tation or Lab Report</div></div>			Sem & Dis 1	MCB, PLS or Neuro 6 Credits	
					Seminar	Lecture	L / Sem
					Pres	Seminar	Practical
						Exam and/or Presen- tation or Lab Report	

L: Lecture; Sem.: Seminar; Sem & Dis: Seminar and Discussion; Sk: Skills Course; Pres: Presentation;

MCB: MSc. in Molecular and Cellular Biology; PLS: MSc. in Plant Sciences; Neuro: MSc. in Neurosciences

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 login in.

LMU user account

@campus.lmu.de or @lmu.de

Password

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

[Login](#)

You are here: [Home](#) ▶ [Course catalogue](#) ▶ [Search for courses](#)[Course catalogue](#)[Lectures cancelled today](#)[Search for courses](#)[Search for persons](#)[Search for rooms](#)[University structure](#)

Course catalogue (WiSe 2024/25)

① [Vorlesungsverzeichnis](#)① [Faculty of Biology](#)① [Courses of the faculty](#)

<u>Lect.-No.</u>	<u>Lecture</u>	<u>Type</u>	<u>Activity</u>
19081	Vorlesung: Berufsbilder in der Biologie - Brachmann , H. Jung	lecture	

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](#)① [E\) Lehramt Start ab WS 20/21](#)① [E\) Lehramt Start vor WS 20/21](#)① [F\) Studiengang Bioinformatik](#)① [G\) Allgemeine Veranstaltungen](#)① [H\) Nebenfach Start ab WS 20/21](#)① [H\) Minor in Biology](#)

Course information in LSF

- If ECTS-credits are not given in the short comments:
- Lecture and Seminar with 2 SWS: you will receive 3 ECTS credits.
- Lecture with 4 SWS: you will receive 6 ECTS credits.
- Practical course with 3 SWS: you will receive 3 ECTS credits.
- Practical course with 6 SWS: you will receive 6 ECTS credits.
- Research course with 12 SWS: you will receive 12 ECTS credits.
- Excursions are regarded as practical courses.

Course sign-up in LSF

- You need to sign up for all seminars and practical courses via LSF!
- For lectures no LSF-registration is required.
- Winter semester 2024/25: course registration period **from Monday, October 7, until Sunday, October 13, 2024 (23:59h CEST)**.
- Online distribution meeting for spots in practical courses: Friday, **October 18, 8:30h**.
- Please note: **You need to be registered at the LMU in order to be able to sign up via LSF.**
- Research courses: please contact group leaders directly (even if a research course is mentioned in LSF).

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



LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

LSF - LEHRE STUDIUM FORSCHUNG

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

LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

LSF – LEHRE STUDIUM FORSCHUNG

[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

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 evol |
| <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) |

- Guidelines for **good citation practice** and **avoiding plagiarism**
http://www.biologie.uni-muenchen.de/studium/downloads_studium/guidelines-good-practice.pdf
- Faculty rules for **use of artificial intelligence tools** for examination related activities
 - **Text sections and illustrations de novo generated by AI tools** and used in the thesis **must be clearly marked** by footnotes/ annotations at the appropriate places and the AI tool must be indicated analogously to literature sources. The prompts used have to be listed in the appendix.
 - The use of AI tools to optimize, translate and correct the spelling and grammar of self-generated texts and to optimize self-generated illustrations is permitted without indication.
 - **The author is responsible for the correctness and proper presentation in written performances and presentations.**
 - Sources / references must be cited in accordance with the rules of good scientific practice.

- Missing of lectures/practical courses
- Maximal study duration
- Acknowledgement of credits **until end of first semester**
- Emails
 - Accounts
 - Email etiquette: Use your campus-email for all LMU-communication

- Information on jobs, internships, talks etc. on EES-website under „announcements“

<https://www.ees.bio.lmu.de/news/index.html>

- Support for ERASMUS Praktikum Student jobs:

- [LMU Career Service](#)

- Contact: Anna Schwark

- Study abroad

www.lmu.de/international/auslandsstudium

Please...

- complete LMU-registration (if you have not done so already!)
- apply for LMU-card
- register your address at KVR or “Bürgerbüros”
https://www.muenchen.de/rathaus/home_en/Department-of-Public-Order/Registration-Deregistration.html
- apply for residence permit (if applicable) with Foreigners Office at KVR (Munich) or District Offices (outside Munich)
<https://www.lmu.de/en/workspace-for-students/international-student-guide/residence-permit/index.html>
https://www.muenchen.de/rathaus/home_en/Department-of-Public-Order/Foreigners-Office.html
Contact in case of permit problems: [Maj-Catherine Botheroyd-Hobohm](#)
- (open a German bank account)

- Services offered by Munich Student Union (*Studierendenwerk*)
<https://www.studierendenwerk-muenchen-oberbayern.de/en/advisory-network/>
- 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
 - the services are strictly confidential – no documentation on any official notification or certificates!
 - Introduction event 2024: October 11, 2024, 10:00 h

www.lmu.de/barrierefrei

behindertenberatung@lmu.de

- Inclusion tutors
Specifically trained students
support students
- 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

www.lmu.de/inklusionstutoren
[inklusionstutoren@verwaltung.uni-
muenchen.de](mailto:inklusionstutoren@verwaltung.uni-muenchen.de)

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

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



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/>

University sports www.zhs-muenchen.de/en

ZHS
Zentraler Hochschulsport München



Home

About ZHS

Our Team

Career

Accessibility

Prevention of sexualized
violence

ZHS Code of Honour

Locations & Opening
Hours

Tickets & ZHS-Card

Sports classes

Vacant places

Course Information &
Download Center

Competitive sports

Booster club of ZHS
Munich

Home > About ZHS



We about us

We - the ZHS - stand for The Spirit of Sports. Sport connects - stands for community. Togetherness.

Whether young, old, students, alumni or supporters, everyone is welcome - regardless of social, ethnic and cultural background, world view, religion, political conviction, sexual orientation, mental and physical abilities, age or gender. #SportsShouldBeFun-for everyone.

As the former venue of the 1972 Olympic Games, Munich offers excellent conditions for our sporting activities both at the TUM Campus in the Olympic Park and within and outside the city limits of Munich.

The former training grounds of the 1972 Olympic Games, which are currently shining in new splendour after the new construction of the halls and the reconstruction of numerous outdoor facilities, is the home of the Central

Salamat

Gracias

الشكر لكم

Mille
Grazie

Thank you

teşekkür

धन्यवाद्

благодаря-ти

Dankeschön