

### Faculty of Biology









# Master's program in Evolution, Ecology & Systematics

## Cohort 17

### Winter semester 2023/2024



GeoBio-Center LMU München



Zoologische Staatssammlung München











- Overview introducton events
- About LMU and the biocenter
- About EES
  - General
  - Locations
  - Curriculum and study plan
  - Research and staff
  - 1st semester
- Course catalogue LSF and course registration
- Other important issues
- Administrative issues for (international) students
- Additional services and offers for students



#### Faculty of Biology MAXIMILIANS-

LUDWIG-

UNIVERSITÄT MÜNCHEN

## **Schedule EES introduction events 2023**

EES introduction events 2023	3: October 5 - 13, 2023			
Monday		Wednesday	Thursday	Friday
October 02, 2023	October 03, 2023	October 04, 2023	October 05, 2023	October 06, 2023
			13-00-14-00 h CEST	9:00-12:00 h CEST Intercultural Communication Skills workshop On campus workshop LMU-biocenter, room C00.013
No program for master's students	Public holiday No program for master's students	No program for master's students	Photo shocking for cohort's poster in LMU biocenter, hall B 14:00 - 16:00 h CS3T Matter's Introduction Meeting to the EES program by Dr. Michael Bögle and Dr. Philomana Bödenstainar and welcome by advanced EES students.	
			Hybrid meeting: IMU-biocenter, big lecture hall 800,019 For students who are not (yet) in Munich: Zoom link: Integ://Imu-munich.zoom- x.de/j/883130852313/pwd-50tua996WHh2e6d kSV1dFR27HW01079 Meeting ID: 68813085231 Passcode: 396134	
Monday	Tuesday	Wednesday	Thursday	Friday
October 9, 2023	October 10, 2023	October 11, 2023	October 12, 2023	October 13, 2023
9-45-12:00 h GST Introduction to Max-Blanck-Institute for Biological Intelligence in Serviseon Serviseon, main seminar room in house 4 (for information about the venue please see the respective file) 00-45-10:00 h W. Goymann: A short history of the MPI 100-10:20 h W. Goymann: (Ecophylology of Life Histories) 10:30-11:00 h M. tau (Evolutionary Physiology) 11:00-11:30 h C. Kopper (Behavioural Genetics and Seolutionary Ecology) 11:00-11:30 h W. Forstmeier (Crnithology) 12:00-12:30 h Lunch break at the lake (bring your own lunch!) 12:30-13:00 h S. Hoffmann (Demonstration of the Wind Tunne!)	9:00-13:00 h CBT Mater's Oriention meeting with presentations of all divisions of the faculty (including Evolution, Ecology and Systematics) Hybrid meeting: IMV-biocenter, big facture hall 800.019 For students what are of tyek1 in Munich: Zoon link: https://mwmich.soom- act/(S80089490577pwd-s6x6c0Vqdk9Yc3pR MVRU/rhyd021079 Meeting-ID: 690 0894 9057 Kenncode: 097331	Optional Master's Welcome Event	Optional Master's Welcome Event	Optional Master's Welcome Event
Optional Master's Welcome Event please register via: Moodle Page: http://modile.nuw.dejenrol/indes.php?id=98 92&langeen Enrolment Key velcome (both for guests and for the students who already have the LMU account)	Optional Master's Welcome Event	Optional Master's Welcome Event AND/OR Welcome Day for international degree students offered by LIVU International Office losas sea: http://www.imu.de/en/vortspace for-students/news-and- events/details/welcome.day/or-international- students.html	14:00-17:00 h CEST Intercultural Communication Skills workshop online (for students who are not yet in Munich) sign-up link: http://www.sfiv.envalung.uni- muenchen.de/icsw	Optional Master's Welcome Event



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

The University

**1800** Transfer to Landshut

LUDWIG-MAXIMILIANS-

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 2022: worldwide # 33 LMU in Germany # 2







Students:~52,400Internationalstudents:~9,800Professors:~830Academic staff: ~6,000

Academic staff: ~6,000 (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



### LMU Biocenter













#### LMU Biocenter





#### The sculpture "Batterie" by Gregor Passens

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







## 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 valid until September 30, 2028.
- <u>www.ees.bio.lmu.de</u> (information for current students: download)



# Why EES?

- become a critical thinking and independent scientist
- become familiar with modern research methods and techniques
- gain research experience
- acquire skills in communication, writing and analytical thinking to be prepared for a job inside or outside of academia
- be optimally prepared to join a PhD
- know your own strengths and be ready to make informed career decisions
- learn about and experience different cultures
- use and learn at least two languages





## What to expect

- network of university research and other research institutions
- international learning environment and staff, ~ 80% international students



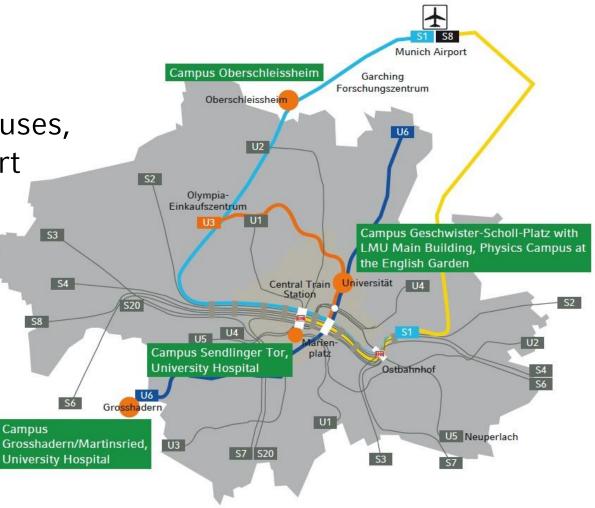
- Diversity of techniques and research approaches (field experiments, genetic/genomic methods, phylogenetics, ...)
- modern data analysis (statistics, big data, mathematical models ...)

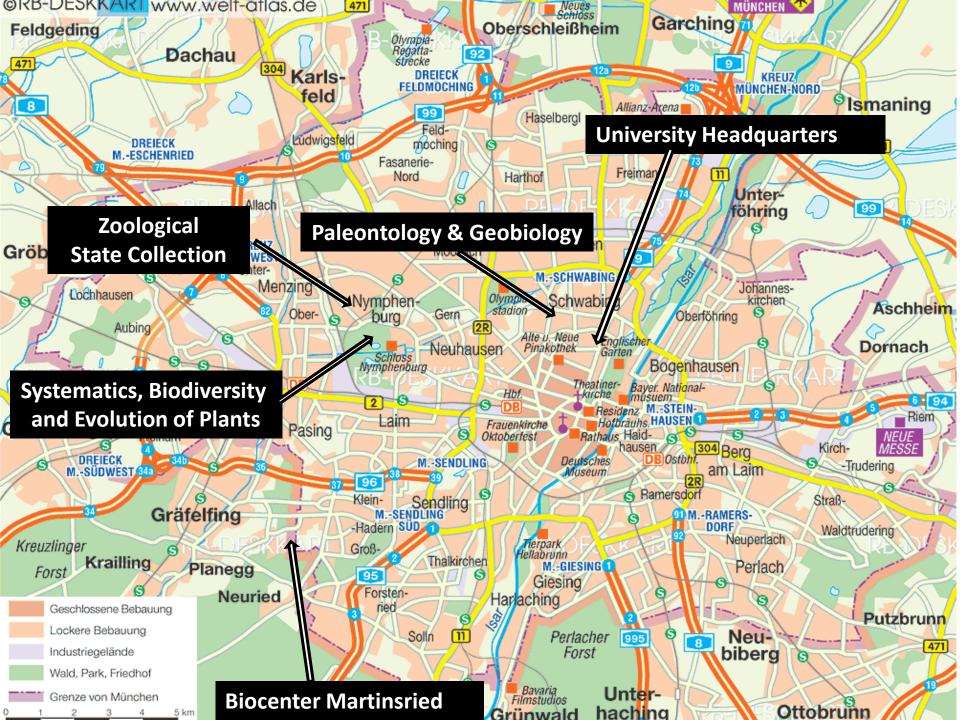




## Locations

With its various campuses, LMU is an integral part of Munich – a major seat of knowledge and learning

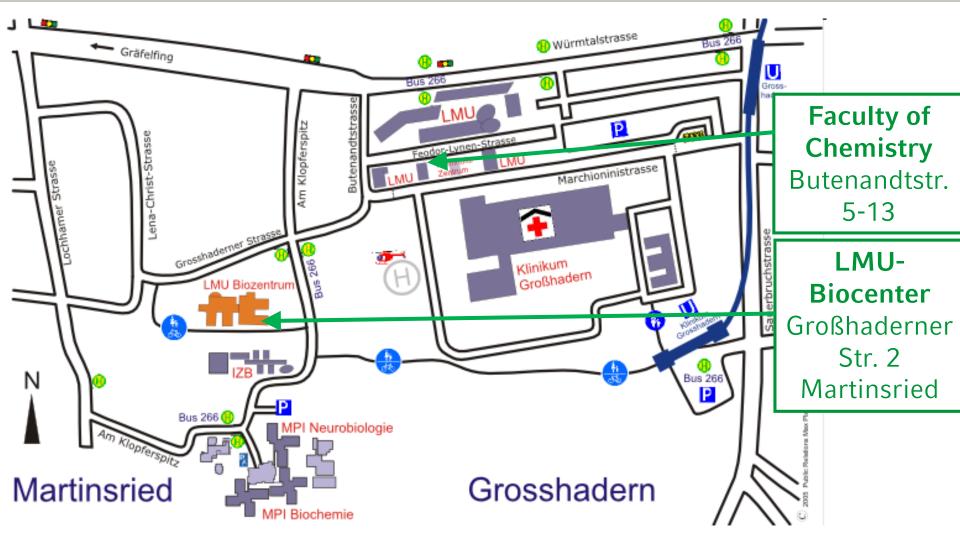






#### LMU Biocenter

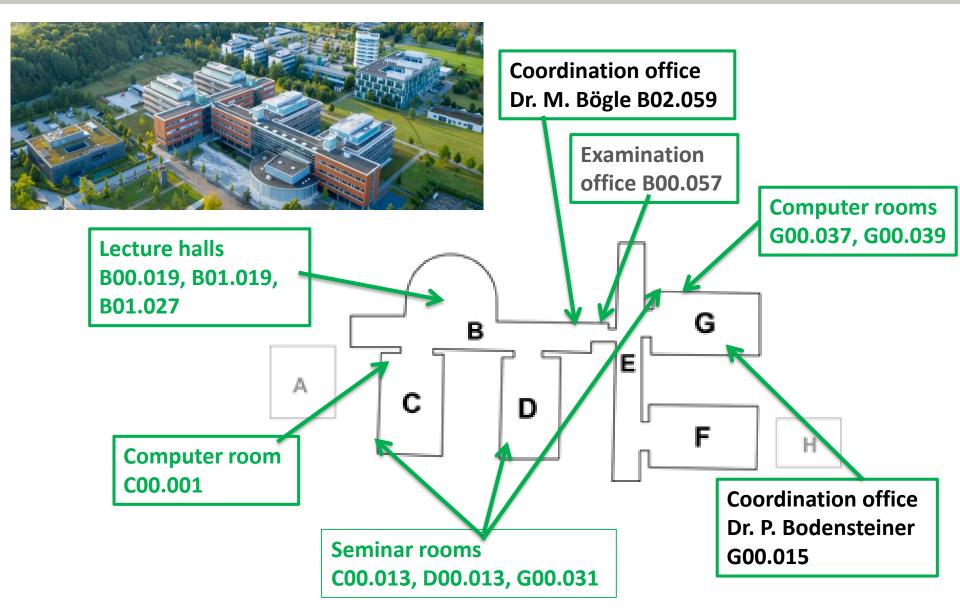






#### LMU Biocenter









## **Overview EES curriculum**

4.	Master Thesis & Disput	20 talks AGs			
3.	Research project Sk4	Sem&Dis EES	oice of co	urses	
2.	Research project ska	Exc, Sem & Dis Global change	Stat. 2	Free cł	noice of courses
1.	Research project Sk2 Stat. 1	Evol. Genetics	Evol Eco	ology	Systematic Data and Evidence





### **Master EES semester 1**

**ECTS - Credits** 


Mandatory	3 out of 9 mod	dules to be selected (minimum	2 EES-modules)	9 cre	dits to be sel	ected
Analysis	Evolution	Ecology	Systematics		Research Tra	
3 Credis	6 Credits	6 Credits	6 Credits	EES, MCB	, PLS or Neu	ro 9 Credits
L Sk 1	Lecture	Lecture	Lecture	Resea	rch Course	Sk 2
Pres	Exam	Exam	Exam	Project re	eport and Pro	esentation
graded	graded	graded	graded		graded	
		Zeeleeu		L EES	Sem EES	Pract EES
_		Zoology				
er		6 Credits		3 Credits	3 Credits	3 Credits
est		Lecture Practical		Lecture	Seminar	Practical
Semester 1		Exam and Presentation		Exam	Pres	Lab Repor
S S S S S S S S S S S S S S S S S S S		MCB, PLS, Neuro		Sem & Dis	MCB, PL	S or Neuro
		6 Credits		1	6 C	redits
		Lecture L / Sem		Seminar	Lecture	L / Sem
		Seminar Practical		Pres	Seminar	Practical
		Lecture			Exam and	/or Presen-
		Exam and/or Presen- tation or Lab Report			tation or	Lab Report

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

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



Semester 2



## **Master EES semester 2**

	Mandatory			21 Cre	dits to be s	elected				
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		Resear	ch course		Sk 3	Lecture	Practical		
Exam	Presentation + Report			Report and	Poster	JR J		Presentation		
			10					-		
		L EES	L EES	L EES	Sem EES	Sem EES	Pr EES	Pr EES		
		3 Credits	3 Credits	3 Credits	3 Credits	3 Credits	3 Credits	3 Credits		
		Lecture	Lecture	Lecture	Seminar	Seminar	Practical	Practical		
		Exam	Exam	Exam	Pres	Pres	Lab Report	Lab Report		
					_	-				
					an a	5 or Neuro		5 or Neuro		
					6 Credits		6 Cr	edits		
					Lecture	L / Sem	Lecture	L / Sem		
			Seminar Practical Ser					Practical		
						/or Presen- _ab Report		/or Presen- Lab Report		





### Master EES semesters 3 and 4

	Mandatory	Mandatory		15 cre	dits to be sel	ected	
	Sem & Dis	Internal Research Training IRT 3	L EES	L EES	Sem EES	Sem EES	Pr EES
	3	EES, MCB, PLS or Neuro 12 Credis	3 Credits	3 Credits	3 Credits	3 Credits	3 Credits
	Seminar	Research course Sk 4	L Pr	Lecture	Seminar	Seminar	Practical
	Pres	Project Report and Presentation	Exam + Pres	Exam	Pres	Pres	Lab Report
Semester 3			L. Bio	Sem. Bio	Pract. Bio	MCB PL	S or Neuro
em			3 Credits	3 Credits 3 Credits		6 Credits	
0)			Lecture	Seminar	Practical	Lecture	L / Sem.
			Exam	Pres.	Lab Report	Seminar	Practical
						Exam and/or Pr	es or Lab Report
	<u></u>		8.5		35		
Semester 4		Master Completion	n Module				Acc. Courses Master thesis
nes		Master thesis 26 (	Credits	Di	Co GS		
Sel		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 required two IRTs can be external.
- A project is considered as external if the supervisor is not included in the "<u>list of internal supervisors</u>".
- Wednesdays: This day is set aside for your independent research projects.





## Study cycle in 1 year

- LMU winter semester WiSe: October 1 March 31
- LMU summer semester SuSe : April 1 September 30
- Lecture time WiSe 23/24: October 16, 2023 February 9, 2024
- Christmas break 2023: December 23, 2023 January 7, 2024
- Lecture time SuSe 2024: April 15 July 19, 2024
- Exams: 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









Startseite + Information for Current Students + Exam Regulations

#### NEWS

IMPRESSIONS

PROGRAM

RESEARCH

ADMISSION

INFORMATION FOR CURRENT STUDENTS

Information

Exam Regulations

Download

CONTACT

STUDYING IN MUNICH

#### Exam Regulations

The current EES Exam Regulations were taken into effe ECTS credits needs to be conducted in the different mo pass/fail).

#### Downloads

- Exam Regulations valid start WS 18/19 or later (in G
- Exam Regulations valid till start WS 17/18 (in Germa
- Program Catalog for old study regulation till start W

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

LUDWIG-

LMU

MAXIMILIANS-

UNIVERSITÄT MÜNCHEN

Vom 29. November 2019

Auf Grund von Art. 13 Abs. 1 Satz 2 in Verbindung mit Art. 58 Abs. 1 Satz 1 und Art. 61 Abs. 2 Satz 1 des Bayerischen Hochschulgesetzes erlässt die Ludwig-Maximilians-Universität München folgende Satzung:





## **Other EES "events"**

- EES Seminar Series
  - international speakers
  - meet the speaker
- EES Alumni Seminars
- annual EES Conference and graduation ceremony, (usually) in October
- annual IRT1 & IRT3 Conferences, usually in March
- Social Media twitter/X (LMU, EES, different labs) <u>https://www.instagram.com/ees\_Imu/</u>



Samantha Patrick, University of Liverpool



Katie Peichel, University of Bern



Robert Page, Arizona State University





## **Research Groups and Staff**

#### Ecology



Behavioural Ecology

Aquatic Ecology Evolutionary Ecology



#### **Evolutionary Biology**

Evolutionary and Ecological Genetics



**Statistical** 

Genetics



#### Zoomorphology



Evolutionary & Functional Genomics





#### Research and staff









# Systematics, Biodiversity & Evolution of Plants



#### Organismic Adaptation (CORA)







## Behavioural Ecology & Evolutionary Genetics







Behavioural Neurobiology



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



Zoologische Staatssammlung München

Systematic Zoology, Marine Biology





## Master EES semester 1

#### ECTS - Credits


Mandatory	3 out of 9 mod	dules to be select	ed (minimum)	2 EES-modules)	9 cree	dits to be sel	ected	
Analysis	Evolution	Ecol	ogy	Systematics	Internal F	Research Tra	lesearch Training IRT 1	
3 Credis	6 Credits	6 Cre	dits	6 Credits	EES, MCB,	, PLS or Neu	ro 9 Credits	
L Sk 1	Lecture	Lect	ure	Lecture	Resea	rch Course	Sk 2	
Pres graded	Exam graded	100 C	Exam graded g		Project re	eport and Pro graded	esentation	
5		Zool 6 Cre			L EES 3 Credits	Sem EES 3 Credits	Pract EES 3 Credits	
ster		Lecture	Practical		Lecture	SemInar	Practical	
Semester 1		Exam and P	resentation		Exam	Fres	Lab Report	
s		MCB, PL 6 Cre			Sem & Dis 1		5 or Neuro redits	
		Lecture	L / Sem		Seminar	Lecture	L / Sem	
		Seminar	Practical		Fres	Seminar	Practical	
		Lect Exam and/ tation or L	or Presen-			10 TO 10	/or Presen- Lab Report	

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

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





## 1st semester schedule: Mandatory and elective courses

Day	Time	Course	Room
	8:30-10:00	Evolutionary Ecology (lecture)	B 01.027
	10:30-12:00	Evolutionary Genetics (lecture)	B 01.027
Monday	12:30-14:00	Presentation Skills 1	B 02.045
	14:00-16:00	Meet the speaker (EES seminar)	B 01.015
	16:00-17:00	EES Seminar	B 01.019
Tuocday	8:30-10:00	Evolutionary Ecology (lecture)	B 01.027
Tuesday	10:30-12:00	Evolutionary Genetics (lecture)	B 01.027
	8:30-10:00	Presentation Skills 1	N 02.020
Wednesday	13:00-14:30	Mathematical Basics for EES students	B 01.027
Thursday	9:00-10:30	Mathematical Basics for EES students	C 00.013
Friday	10:00-14:00	Systematic Data & Evidence (lecture)	C 00.013





## 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

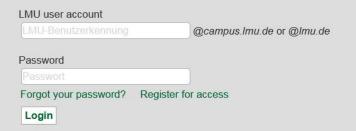
University structure

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 loggin in.





## Course Catalogue LSF



#### You are here: Home 🕨 Search for courses 🕨 Course catalogue

Course catalogue	Course catalogue (WiSe 2023/24)						
Lectures cancelled today	(i) Vorlesungsverzeich	() Vorlesungsverzeichnis					
Search for courses	Faculty of Biology	y .					
Search for persons	(i) Courses of the	ne faculty					
Search for rooms	LectNo.	Lecture		Туре	Activity		
University structure	19055	Vorlesung: Berufsbilder für BiologInnen	Brachmann, H.J		-		
	(i) A) Bach	elor Start ab WS 20/21					
	(j) A) Bach	elor Start vor WS 19/20					
	<li>B) Master</li>	er Human Biology - principles of health	and disease				
$\searrow$	<li>B) Master</li>	er Molecular and Cellular Biology					
	<li>B) Master</li>	er Neuroscience					
	<ul> <li>B) Master</li> </ul>	er Plant Sciences					
	📕 🚺 B) Maste	er Evolution, Ecology and Systematics					
	(i) E) Lehra	amt Start ab WS 20/21					
	(i) E) Lehra	amt Start vor WS 20/21					
	(j) F) Studi	engang Bioinformatik					
	🛈 G) Allge	emeine Veranstaltungen					
	🕕 H) Nebe	nfach Start ab WS 20/21					
	🛈 H) Mino	r 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 2023/24: course registration period from Monday, October 9, until Sunday, October 15, 2023 (23:59h CEST).
- Online distribution meeting for spots in practical courses: Friday, October 20, 8:30h.
- Please note: You need to be registered at the LMU in order to sign up via LSF.
- Research courses: please contact group leaders directly (even if a research course is mentioned in LSF).



Hilfe



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

LUDWIG- MAXIMILI UNIVERSIT MÜNCHEN	
You are here: Home	
Transcript	
Osha dula a	My Functions
Schedules	
Course catalogue	My contacts
Search for courses	Master Distante
	Master Biologie
List of exams registered for	(D)
Register for exams	When to register for courses
Register for courses	Master Biologie
Stay abroad	
Stay abivau	



## Course sign-up in LSF





#### You are here: Home 🕨 Register for courses

Transcript	
Schedules	Important information on course registration
Course catalogue	Please read carefully!
Search for courses	Master Biologie ( PO-Version: 2012 ):
List of exams registered for	Der zuständige Prüfungsausschuss macht darauf aufmerksam, dass das Belegen der Lehrveranstaltungen Über HISLSF keine verbindliche Anmeldung zu den studie
Register for exams	Form und Fristen
Register for courses	- für die Belegung von Lehrveranstaltungen - für die Anmeldung zu Prüfungen
Stay abroad	werden auf der Internetseite des für Ihren Studiengang zuständigen >Prüfungsamts< bekanntgegeben.
<< Hide menu	
<b>Hilfe</b>	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



G



#### **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 tran
🔍 Register 🗖	Priority: Seminar for bashelor, master, and doctoral students and for Zulassungskandidaten (AG Phylo
🔍 Register 🗖	Priority: Seminar for bachelor, master and doctoral students (AG Phylogenetic phycology)





## **Other important things**

- Health issues
- Services offered by Munich Student Union (*Studentenwerk*)
- Missing of lectures/practical courses
- Exams
- Max. study duration
- Acknowledgement until end of first semester
- Emails
  - Accounts
  - Email etiquette: Use your campus-email for LMUcommunication
  - W-LAN www.lrz.de





# **Going Abroad**

- Support for ERASMUS Praktikum Student jobs:
  - Anna Schwark
  - LMU Career Service
- Study abroad





Please...

- complete LMU-registration (if you have not done so already!)
- apply for LMU-card
- register your address at KVR or "Bürgerbüros" <u>https://www.muenchen.de/rathaus/home\_en/Department-of-Public-Order/Registration-Deregistration.html</u>
- apply for residence permit (if applicable) with Foreigners Office at KVR (Munich) or District Offices (outside Munich)

<u>https://www.lmu.de/en/workspace-for-students/international-student-guide/residence-permit/index.html</u>

<u>https://www.muenchen.de/rathaus/home\_en/Department-of-Public-Order/Foreigners-Office.html</u>

• (open a German bank account)



#### Other services for students



## **University sports**

Home

Home	
About ZHS	+
Locations & Opening Hours	+
ZHS-Card & Tickets	+
Sports classes	+
Vacant places	Ľ
Course Market	Ľ
Course Information & Download Center	+
Competitive sports	+
FAQs	+

#### **University Sports Center Munich (ZHS)**



#### Course offer winter term 2023/2024

The Basic Ticket is bookable from 25.09.23.

Please be sure to check our website for requirements and the process for obtaining the ZHS Card before booking.

Please be sure to check our website for requirements and the process for obtaining the new ZHS Card before booking.

Course bookings will start as follows:

Proliminany datas for source booking: Changes in sources, dates and prices are possible at short notice.

#### ZHS - Zentraler Hochschulsport München

Connollystraße 32 80809 München Phone: 089.289.24668 Contact 🖆

ZHS opening hours

Get your Basic-Ticket 🖪

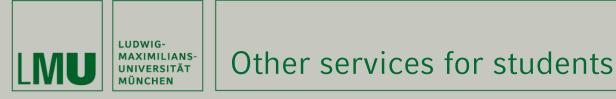
Folgen Sie dem Zentralen Hochschulsport München:

f 🖸 🕨

Follow TUM:









# Studying with disabilities

### The helpdesk offers:

- 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 confidental no documentation on any official notification or certificates!
- interest group of disabled and non-disabled students: <u>www.lmu.de/IBS</u> Contact:

www.lmu.de/barrierefrei

behindertenberatung@lmu.de





## Studying with a child

LUDWIG-

MAXIMILIANS-

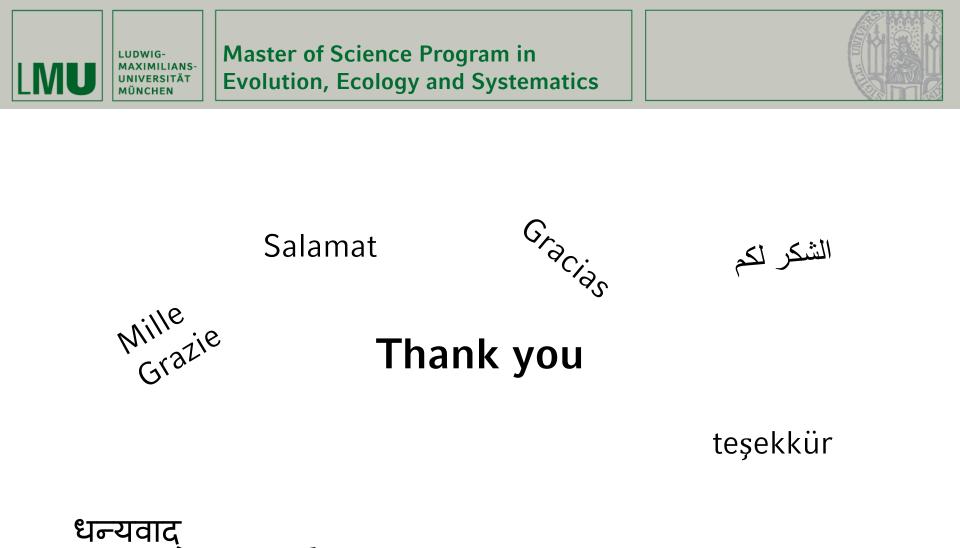
Student support services "STUDYING WITH A CHILD"

For all questions regarding studying with child(ren)

Service-Hotline: 089 / 2180-3124

E-Mail : studierenmitkind@lmu.de

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



благодаря-ти

Dankeschön