



INTRODUCTION TO THE MASTER OF SCIENCE PROGRAMS

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











Semester dates



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

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

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

Duration summer semester: April 1 – September 30, 14 weeks There are no lectures on public holidays which includes Whitsun Tuesday.



Curriculum



Type of course	Type of examination	ECTS
Lecture	(Written) Exam	3
Seminar	Presentation	3
Practical course	Lab report	3-6
Research course*	Lab report and presenation	12

^{*} Needs to be combined with other courses into a module. Courses must be similar in terms of subject matter in order to be combined.



MCB – 1st Semester



1st Semeste

Mandatory course: Lab Methods (6 ECTS)	Mandatory Computationa (6 ECT:	al Biology	Option 1 of 7 (6 ECTS)		Methods of Option 1 of 7 (6 ECTS)		2 interdisciplinary courses (3 ECTS each)
S P	L	Р	L	S	S	Р	L/S/P/V L/S/P/V
			L	L			
Presentation & lab report (graded)	Written ex lab report (g	-		exam & on (graded)		tation & t (graded)	Written exam, lab report or presentation (pass)
Options: Genetics Human Biology Microbiology Cell biology		Courses have to be combined					
• EES	Plant Sciences						

EES: Evolution, Ecology and Systematics

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

Therefore, they must belong to the same topic area.



PLS – 1st Semester



1st Semeste

Mandatory course: Lab Methods (6 ECTS)	Mandator Computatio (6 EC	(6 = ()		•		(6 ECTS) Option 1 of 7		1 of 7	2 interdisciplinary courses (3 ECTS each)
S P	L	Р	L	S	S	Р	L/S/P/V L/S/P/V		
Presentation & lab report (graded)	Written e			exam & on (graded)		cation & t (graded)	Written exam, lab report or presentation (pass)		
Options: Plant molecular b Biotic interactions Systematics Plant cell biology Biology:	s of plants		С	ourses l	have to	be com	bined		

These courses have to be combined into a module. Therefore, they must belong to the same topic area.



Winter semester 2025/26



October 6 – 10	Orientation week		
October 14 – 17	Computational Biology* Part 1		
October 21 – November 7	Lab methods* Group A	Computational Biology* Part 2, Group B	
November 11 – November 28	Computational Biology* Part 2, Group A	Lab methods* Group B	
December 1 – March 31	Elective	courses	
December 23 – January 6	Christmas holidays		
February ~ 9 - 22	Exam period		
April 13	Start classes summer semester		

^{*} Attendance is mandatory! One medically certified absence per course is allowed.



Winter semester 2025/26



Schedule from October 14 to November 28, 2025

Monday	Tuesday	Wednesday	Thursday	Friday
		08:00 - Lectures/	- 10:00 Seminars	
Lectures		Mandator	- 17:00 y Courses	
		17:00 – d Sem	pen end inars	



MCB – 2nd Semester



2nd Semester

Advanced Option 1 of 7 (6 ECTS)		Advanced methods of Option 1 of 7 (6 ECTS)		
L	S	S	Р	
L	L			
Written presentatio		Presentation report (gr		

Research course Option 1 of 7 (12 ECTS)	2 interdisciplinary courses (3 ECTS each)		
Research course GS		L/S/P/V	L/S/P/V
Presentation & lab report (graded)	Written exar	m, lab report ation (pass)	

Courses have to be combined

Options:

- Genetics
- Human biology
- Microbiology
- Cell biology
- Biology:
 - Plant Sciences
 - EES
 - Neurosciences

These courses have to be combined into a module. Therefore, they must belong to the same topic area.

EES: Evolution, **E**cology and Systematics



PLS – 2nd Semester



2nd Semester

Advanced Option 1 of 7 (6 ECTS)		Advanced methods of Option 1 of 7 (6 ECTS)		
L	S	S	Р	
L	L			
Written presentatio		Presentation report (gr		

Research course Option 1 of 7 (12 ECTS)	2 interdisciplinary courses (3 ECTS each)		
Research course	L/S/P/V	L/S/P/V	
Presentation & lab report (graded)	Written exar	m, lab report ation (pass)	

Courses have to be combined

Options:

- Plant molecular biology
- Biotic interactions of plants
- Systematics
- Plant cell biology
- Biology:
 - MCB
 - EES
 - Neurosciences

These courses have to be combined into a module. Therefore, they must belong to the same topic area.

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



MCB – 3rd Semester



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)
•	Options: Genetics Human biology Microbiology				

Courses have to be combined

These courses have to be combined into a module.
Therefore, they must belong to the same topic area.

Cell biology Biology:

EES

Plant Sciences

Neurosciences



LUDWIG-MAXIMILIANS-UNIVERSITÄT

PLS – 3rd Semester



L/S/P/V

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/F
Presentation & lab report (graded)	Lab report & oral exam (graded)		Written exam, lab report or presentation (pass)
Options:			

Courses have to be combined

Systematics Plant cell biology

- Biology:
 - MCB
 - EES
 - **Neurosciences**

Plant molecular biology Biotic interactions of plants

> These courses have to be combined into a module. Therefore, they must belong to the same topic area.



MCB – 4th Semester



Final master's module (30 ECTS)						
Master's thesis (26 ECTS)	Disputation (1 ECTS)	C (1.5 ECTS) GS (1.5 ECTS)				
graded	graded	not graded				

C: colloquium
GS: group seminar



PLS – 4th Semester



Final master's module (30 ECTS)						
Master's thesis (26 ECTS)	Disputation (1 ECTS)	C (1.5 ECTS) GS (1.5 ECTS)				
graded	graded	not graded				

C: colloquium
GS: group seminar



Curriculum



Research courses (2)

- 8 weeks full-time lab work + 1 week preparation lab report
 (12 ECTS / 15 ECTS)
- You are allowed to do one external research course (can be the first or second – order irrelevant)
- External = outside of the faculty
 (→ supervisor is not included in the "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 the program websites

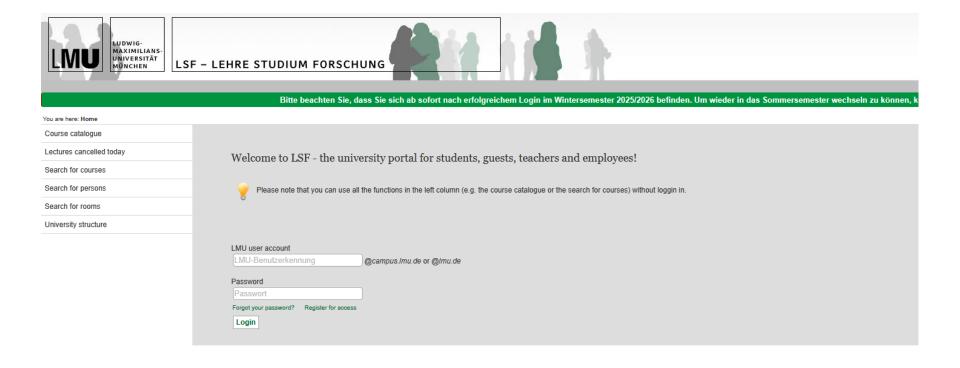


LSF



Course catalogue & course registration

www.lsf.lmu.de





LSF



Course catalogue Lectures cancelled today Search for courses Search for persons Search for rooms University structure

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



LSF



You are here: Home
Course catalogue

Course catalogue
Lectures cancelled today
Search for courses
Search for persons
Search for rooms
University structure

- (i) Vorlesungsverzeichnis
 - (i) Faculty of Biology
 - (i) Courses of the faculty

LectNo.	Lecture	Туре	Activity
19081	Vorlesung: Berufsbilder in der Biologie - Brachmann, H. Jung	lecture	

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



MAXIMILIANS-

LSF



You are here: Home
Course catalogue

Course catalogue
Lectures cancelled today
Search for courses
Search for persons
Search for rooms
University structure

- (i) Vorlesungsverzeichnis
 - (i) Faculty of Biology
 - (i) Courses of the faculty
 - (i) B) Master Molecular and Cellular Biology
 - (i) 1. Semester
 - (i) P1 Lab methods in molecular and cellular biology
 - (i) P2 Computational biology in molecular and cellular biology
 - (i) WP1-3 Genetics
 - (i) WP4-6 Human biology
 - (i) WP7-9 Microbiology
 - (i) WP10-12 Cell biology
 - (i) WP13-15 Plant sciences
 - (i) WP17-20 Neurobiology
 - (i) WP21-23 Evolution, Ecology and Systematics
 - (i) WP24-31 Elective courses



LSF



You are here: Home
Course catalogue

Course catalogue Lectures cancelled today Search for courses Search for persons Search for rooms University structure

- (i) Vorlesungsverzeichnis
- (i) Faculty of Biology
 - (i) Courses of the faculty
 - (i) B) Master Molecular and Cellular Biology
 - (i) 1. Semester
 - (i) WP7-9 Microbiology

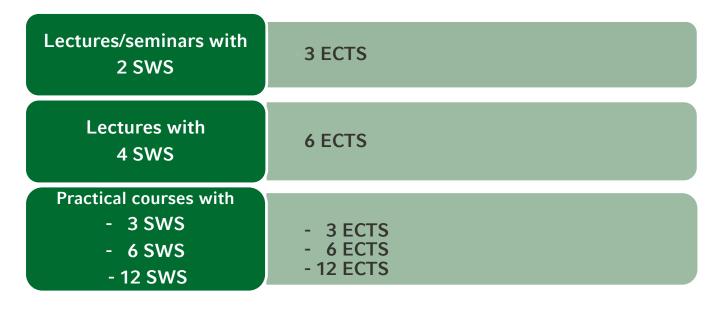
Lect No.	Lecture	Туре	Activity
19154	Seminar: Sample preparation for electron microscopy - Klingl	seminar	application currently not allowed
19327	Seminar Staphylocooccal pathogenicity and microbiome-interactions - Heilbronner	seminar	
19583	AG Seminar Klingl - Klingl	seminar	application currently not allowed
19017	Lecture: Microbial Development and Physiological Adaptation - K. Jung , H. Jung	lecture	application currently not allowed
19025	Lecture: Molecular virology (part I: basic virology), Baldauf, Brack-Werner, PD Dr. med. Bugert	lecture	application currently not allowed
19015	Practical course: Microbial Development and Physiological Adaptation - K. Jung , Landgraf	internship	application currently not allowed
19019	Seminar: Microbial Development and Physiological Adaptation - H. Jung , Brameyer	seminar	application currently not allowed
19252	Practical course and seminar: Prokaryote-eukaryote interactions - Falter-Braun	exercise course	application currently not allowed



LSF



- Courses can be assigned to different areas, e.g.: genetics, microbiology, cell biology → courses can be used in different modules, but only once.
- No mention of ECTS credits in the short comments:



Excursions are regarded as practical courses.



Signing up for seminars & practical courses



Course catalogue: www.lsf.lmu.de

You must sign up for courses offered in the winter semester 2025/26 from September 29 until October 05, 2025 (23:59h CEST).

Seminars & practical courses

You **need to sign up** via LSF

Lectures

Registration required for some lectures (see LSF)

Research courses

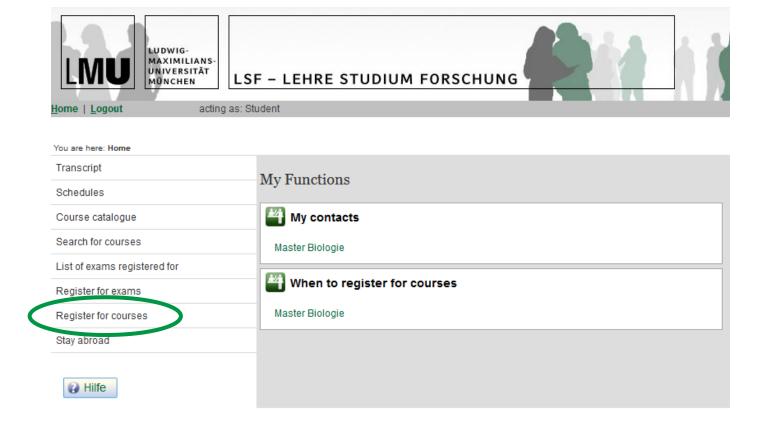
Contact the group leaders directly, even if a research course is listed in LSF



Signing up for seminars & practical courses



- 1. Log into LSF (<u>www.lsf.lmu.de</u>) with your LMU user data.
- 2. Select **English version** (on the top right of the page).
- 3. Select **Register for courses**.





Signing up for seminars & practical courses





LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

LSF - LEHRE STUDIUM FORSCHUNG





iome | Logout

acting as: Student

You are here: Home ▶ Register for course	
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 studienbeg
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	worden dan der internetietete des ich innen etadionigang zatitandigen in indiangetine i sekanningegesen.
Hilfe	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 check Important: To continue please tick "I accept" and press "Next".
	Accept terms I accept Next



Signing up for seminars & practical courses



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 trans
♥ Register □	Priority:	Seminar for bachelor, master, and doctoral students and for Zulassungskandidaten (AG Phylog
○ Register □	Priority:	Seminar for bachelor, master and doctoral students (AG Phylogenetic phycology)



Signing up for seminars & practical courses



General pointers:

- You <u>do not have to</u> apply via LSF for the mandatory courses <u>Lab</u>
 Methods and Computational Biology
 (as a first semester MCB or PLS master's student, you are already registered for these courses).
- Apply only for seminars and practical courses that begin after
 November 28, 2025, as attendance at mandatory courses is required until that date.
- Spots for practical courses are assigned by the study program coordination.
 - Spots for **seminars** are assigned by the **respective lecturers**.



Assignment of spots for practical courses



- 1. Register for practical courses in LSF from Sep 29 Oct 5, 2025
- 2. Study Coordination assigns spots based on the following criteria
 - Priority
 - Seniority
- 3. Zoom meeting for the final assignment of spots on

Oct 10, 2025, 09:00h CEST

- You will get an email with your preliminary spots before the meeting.
- Students are required to confirm their allocated spots during the meeting.
- Unclaimed or vacant spots will be redistributed according to the waiting list.

If you applied for a practical course, you must attend the session or arrange for someone to attend on your behalf.

Failing that, your place will be reassigned to someone else.



All About Your Studies



- Communication at LMU
 only via your @campus.lmu.de address
- Recognition of Prior Learning application to the Examination Office by the end of the first semester
- Exams
 - Number of attempts
 - Grade improvements
- Health issues
 - Missing of exams
 - Missing of lectures, seminars, practical courses
- Maximum duration of studies

Relevant information can be found in the study regulations! ("Documents and Forms" section of the program websites)



Examination Office



Examination Office

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

Head of Examination Committee

- Prof. Dr. Herwig Stibor
- <u>stibor@zi.biologie.uni-muenchen.de</u>
- Office hours by appointment



Master studies coordination



	Dr. Philomena Bodensteiner	Katharina Grenzebach
Program	MCB	PLS, MCB
E-mail	mcb@bio.lmu.de	pls@bio.lmu.de mcb@bio.lmu.de
Room	Biocenter, G 00.015	Biocenter, G 00.011
Phone	+49 (0)89 2180 74793	+49 (0)89 2180 74792
Office hours	Monday – Friday 07:30-14:00 h	Tuesday to Friday by appointment

You are always welcome!



Program Websites



Molecular and Cellular Biology: https://www.bio.lmu.de/en/study/study-programs/master-programs/mcb/

Plant Sciences:

https://www.bio.lmu.de/en/study/studyprograms/master-programs/pls/



Research fields



https://www.bio.lmu.de/en/research/research-fields/



1				
•	Δnti	aron	olog	IV

- → Division of Biology Education
- → Genetics
- → Plant Sciences

- → Cellular and Developmental Biology
- → Ecology
- → Microbiology
- Systematics, Biodiversity and Evolution of plants

- → CORA
- → Evolutionary Biology
- → Neurobiology
- → Zoology



International Students



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



International Students



Social counselling for international students

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

Contact: Maj-Catherine Botheroyd-Hobohm

Website: https://www.lmu.de/en/study/degree-students/applications-for-admission/admissions-consultation/social-counseling/



Central Student Advisory Service (ZSB)



The ZSB is your point of contact for interdisciplinary topics:

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

The ZSB offers:

- Workshops
- Lectures
- Individual counseling



Here you can find more information: https://www.lmu.de/en/study/important-contacts/central-student-advisory-office/



Scholarships



- Scholarships overview
 https://www.lmu.de/en/workspace-for-students/student-support-services/finance-your-studies/scholarships/
- Scholarships for international students
 https://www.lmu.de/en/workspace-for-students/student-support-services/finance-your-studies/scholarships/scholarships-for-international-students/
- Scholarship advisory service
 https://www.studierendenwerk-muenchen-oberbayern.de/en/advice-and-counselling-network/scholarship-advisory-service/
- Scholarship counselling for international students https://www.lmu.de/en/study/degree-students/applications-for-admission/admissions-consultation/social-counseling/



Finding a student job



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



Social advisory and support services offered by LMU



- Studying with disabilities:
 - https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-adisability/
- Studying with a child:
 - https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-achild/
 - https://www.lmu.de/en/workspace-for-students/student-support-services/studying-with-a-child/international-student-parents/
- Gender equality and sexual identity:
 https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/
 - https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/gender-equality-and-sexual-identity/
 - WeCare@LMU:
 - https://www.lmu.de/en/about-lmu/working-at-lmu/additional-services/diversity/wecare-lmu/
- And many more services:
 https://www.lmu.de/en/workspace-for-students/student-support-services/



Advice and Counselling Network offered by Studierendenwerk



<u>https://www.studierendenwerk-muenchen-</u> <u>oberbayern.de/en/advice-and-counselling-network/</u>

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

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



Women's Representative



LMU Women's Representative

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

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

Women's Respresentative of the Faculty of Biology

Prof. Dr. Silke Robatzek

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

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



Social Networking



- Biology Student Council
 https://www.fsi.bio.lmu.de/ueber_uns/index.html
- TutoRIA: international student activities
 https://www.en.tutoria-international.uni-muenchen.de/ueber_uns/index.html
- Erasmus Student Network
 https://mesa.esn-germany.de/
- Sports: Zentraler Hochschulsport (ZHS)
 https://www.zhs-muenchen.de/en/zhs/home/
- Student groups
 https://www.lmu.de/en/workspace-for-students/student-life/student-groups/



Cohort Representative



Tasks of Cohort Representatives

- Act as a link between students and faculty
- Communicate concerns and feedback
- Organize meetings and support peers
- Ensure smooth communication with program coordination

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



Orientation and Welcome Events



Monday, October 6

- 09:00-12:00: Working successfully in international teams (MCB)
- 13:30-16:30: Working successfully in international teams (MCB)

Tuesday, October 7

13:30-16:30: Working successfully in international teams (PLS)

Wednesday, October 8

 14:00-16:00: Welcome Day offered by the International Office (online)

Friday, October 10

09:00: Final assignment of spots for practical courses (online)





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

