

LMU

LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

PETTENKOFER SCHOOL OF PUBLIC HEALTH – PSPH
MEDIZINISCHE FAKULTÄT
INSTITUT FÜR MEDIZINISCHE INFORMATIONSVERARBEITUNG,
BIOMETRIE UND EPIDEMIOLOGIE – IBE
MASTER- UND PHD-PROGRAMME



MSc Epidemiology

Introductory information

06 February 26

MASTER OF SCIENCE
EPIDEMIOLOGY

PETTENKOFER SCHOOL OF PUBLIC HEALTH
PSPH

Questions we would like to answer today...

- (1) What is Epidemiology?
- (2) Who is our programme for?
- (3) Where are we located?
- (4) What will you learn?
- (5) What are your future perspectives after your degree?
- (6) What does the application process look like?
- (7) Further Questions?

1 What is Epidemiology?

Epidemiology **examines** which factors protect, maintain or improve the health of individuals and populations, and which factors are harmful and cause diseases.

Epidemiological knowledge **enables** a better understanding of the dynamics of diseases and ill-health conditions and provides a solid scientific basis for health measures.

2 Who is our programme for?

Our programme is of interest for you if

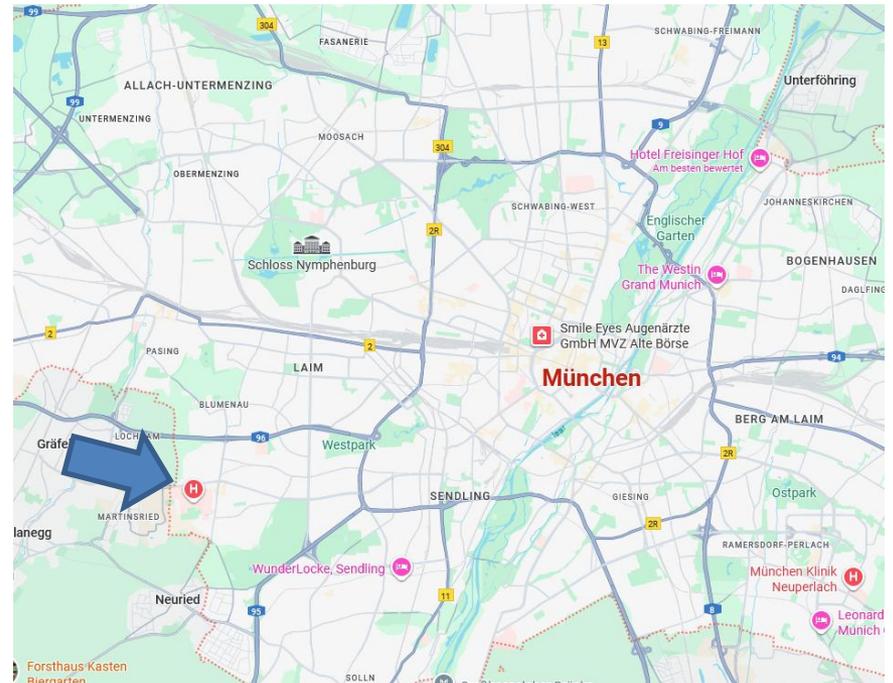
- your Bachelor's degree or higher is in a health related field such as: health science, medicine, pharmacy, psychology, social science, statistics, other scientific disciplines such as biology or chemistry, sports science, physical therapy, economics, business administration, or communications.
- you have good knowledge of mathematics and statistics
- you are interested in epidemiological methods
- you have advanced competency in English (no language certificate necessary but oral exam)

Short overview

Program start	Mid-October
Program duration	4 semester of full-time study (part-time study is not possible)
Language of instruction	English
Fees	None, apart from the basic fee of the Studierendenwerk. See the ↗ continuation of registration webpage for the latest information.
Students per semester	30-35
ECTS	120
Academic qualification	M.Sc. (Master of Science)

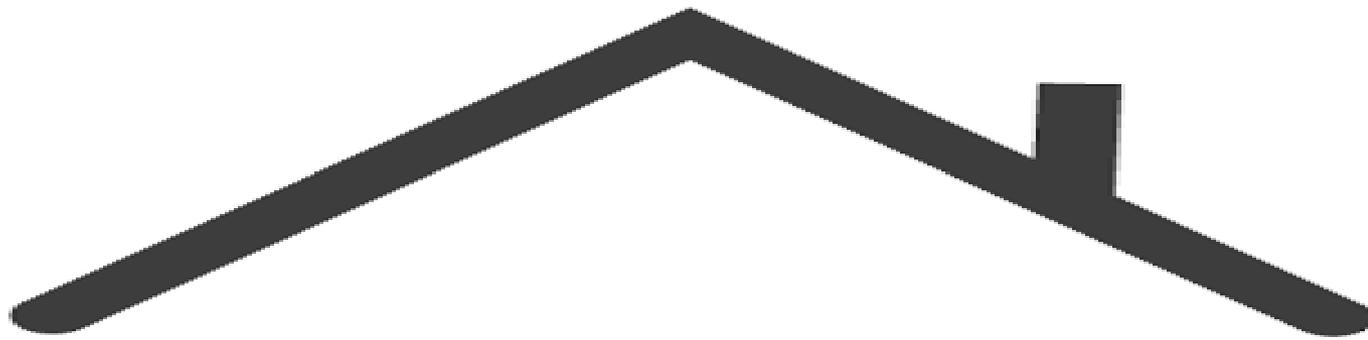
3 Where are we located?

Munich City Centre



Campus at Großhadern Hospital



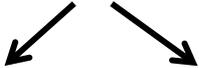


PETTENKOFER SCHOOL OF PUBLIC HEALTH

**Ludwig Maximilians
University**



Medical Faculty

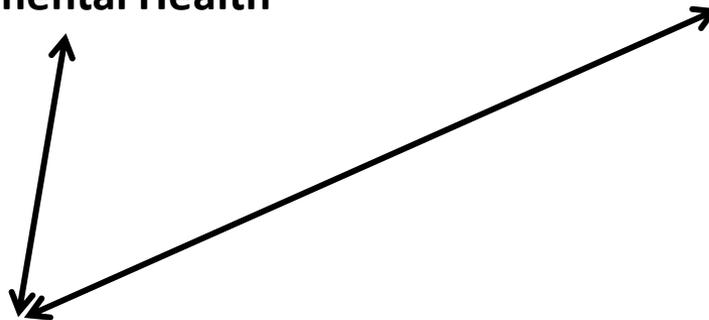


**MASTER OF SCIENCE
PUBLIC HEALTH**

**MASTER OF SCIENCE
EPIDEMIOLOGY**

**Helmholtz Research
Centre for
Environmental Health**

**Bavarian State Office for
Health and Food Safety***



Further Programmes:

MScPH Health Administration and Management*

PhD Public Health and Epidemiology

4 What will you learn?

You will **learn**

- about the relationships between diseases and the risk factors that lead to ill-health
- how to recognise diseases trends, to apply health prevention and promotion approaches, and to determine the prognostic value and the influence of therapeutics on patient quality of life.
- about the relationship between diseases, an individual's genetic predisposition, and influential environmental factors.

You will gain **practical experience** through two mandatory internships.

The programme is structured in accordance with the **Bologna Process**.

A total of **120 ECTS** credits must be acquired over four semesters.

All lectures, courses and seminars are held **in English**.

In the electives, students also have the opportunity to choose courses in German from the Public Health master's programme.

MASTER OF SCIENCE EPIDEMIOLOGY

1. Term

**CORE
MODULES:**

QM, EpiRD, RS

14 ECTS

and

Specialisation I

18 ECTS

2. Term

**CORE
MODULES:**

Internship

HSR

16 ECTS

and

ELECTIVES

12 ECTS

3. Term

**CORE
MODULES:**

Internship

12 ECTS

and

Specialisation II

18 ECTS

4. Term

**CORE
MODULES:**

Master thesis,

Master

Colloquium,

Disputation

30 ECTS

Formats of Classes, Exams

Different formats of classes

- Lectures
- Seminars/Exercises
- Tutorials
- Excursion
- In class and online

Different formats of exams

- Homework, oral presentation, written class exam, field work etc.



Internships

Two mandatory internships (2x9 weeks)

“The internship should provide concrete insight into epidemiologic fields of employment.....”

“.....you have the opportunity to get to know the chosen field of study, to be involved in operational procedures (field work, conceptual tasks, data acquisition, etc.) “

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Who will be your classmates?

First term Master students and senior Master students, international PhD students (CIH) and further PhD students (LMU) from all over the world.

What are your future perspectives after your degree?

Possible fields to work in:

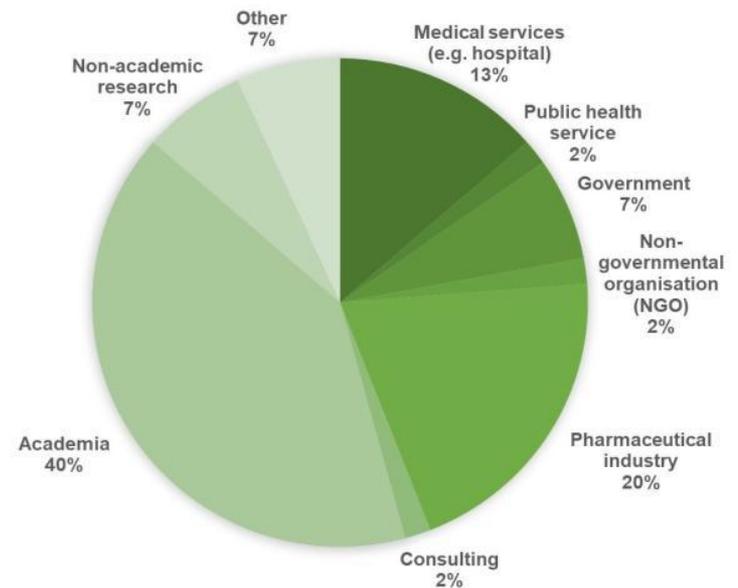
- Academia
- Non-academic research
- Clinical research
- Pharmaceuticals
- Health insurance
- Governmental organisations
- Non-governmental organisations

5 What are your future perspectives after your degree?

Possible fields to work in:

- Academia
- Non-academic research
- Clinical research
- Pharmaceuticals
- Health insurance
- Governmental organisations
- Non-governmental organisations

In which occupational field are you currently working?



Data from a 2023 alumni survey with 75 respondents

6 What does the application process look like?

In order to be considered you need

- 1) A completed application form
- 2) Curriculum Vitae in English
- 3) Proof of Bachelor's degree ≤ 2.5 according to the German grading system
- 4) Passing score on the entry test or the GRE general test

If you fulfill these requirements, you will be invited to an oral admission interview (online)

6 What does the application process look like?

In order to be considered you need

1) A completed application form

-> Please register in our online application tool (APTE) -> Link on our homepage

You can register and apply between 1 February and 15 May each year

6 What does the application process look like?

In order to be considered you need

2) Curriculum Vitae in English

3) Proof of Bachelor's degree ≤ 2.5 according to the German grading system

-> if your unsure about your grade, please use the converting sheet we provide on our homepage

6 What does the application process look like?

In order to be considered you need

4) Passing score on the entry test or the GRE general test

Applicants must either pass the programme's entry test (in Munich) or must score in the 75th percentile or higher on the GRE General Test (in your home country).

GRE General Test results must be uploaded into the online application portal by **May 15, 2026**.

More about the GRE General Test including testing dates and locations in your area can be found on our homepage.

Important Dates 1

The **application portal** opens on 1 February and closes on **15 May**.

The **written entry** test for winter semester 2026/27 is taking place on **16 June, 2026**, 11:00-12:30 in München-Großhadern.

GRE General Test results must be uploaded into the online application portal by **15 May, 2026**.

Important Dates 2

The **oral entry** test for winter semester 2026/27 will be online at the **end of May** (GRE) and at the **end of June** (written entry exam).

The **final approval** will be sent out in the **second week of July** at the latest.

If you are admitted, **all your documents** need to be submitted on the online portal of the international office **by the 15th of July**.

Please keep in mind

Strong focus on statistical methods!

Munich is a very expensive city!

Finding an accommodation will be challenging

Outside the University, basic knowledge of the

German language is helpful

7 Further questions?



Additional slides

Master of Science Epidemiology

1.term
32 ECTS

2.term
28 ECTS

3.term
30 ECTS

4.term
30 ECTS

Epidemiology and Research Design (6 ECTS)

Quantitative Methods (6 ECTS)

From Concept to Analysis

Research Skills (2 ECTS)

Health Services and Research (4 ECTS)

Internship I (12 ECTS)

Research Skills

Internship II (12 ECTS)

Research Skills

Master's thesis (30 ECTS):
Master's thesis:
Master Colloquium
Disputation

Specialisation (18 ECTS)
Environmental, Occupational and Radiation Epidemiology
Epidemiology
Clinical Epidemiology
Advanced Biometry

Health Geography (3 ECTS)
Health Communication (6 ECTS)
Applied Statistics in Epidemiology (6 ECTS)
Planetary Health (3 ECTS)

Specialisation (18 ECTS)
Epidemiology ???
Clinical Epidemiology
Advanced Biometry
Genetic Epidemiology ???

Spring School Effectiveness & Safety Research with Healthcare Databases (3 ECTS)

Prävent. und Gesundheitsförderung (12 ECTS)
Gesundheitssystemforschung und -ökonomie (12 ECTS)
Sozial- und Verhaltenswissensch. (6 ECTS)
Global Public Health (9 ECTS) - english
Qualitative Methoden (6 ECTS)
MeMPE University (3 ECTS)
Public Mental Health (3 ECTS)
Developing surveys and questionn. (3 ECTS) - english

Core modules

Specialisations @Electives MSc Epidemiology

Additional Course offers

Electives MSc Public Health

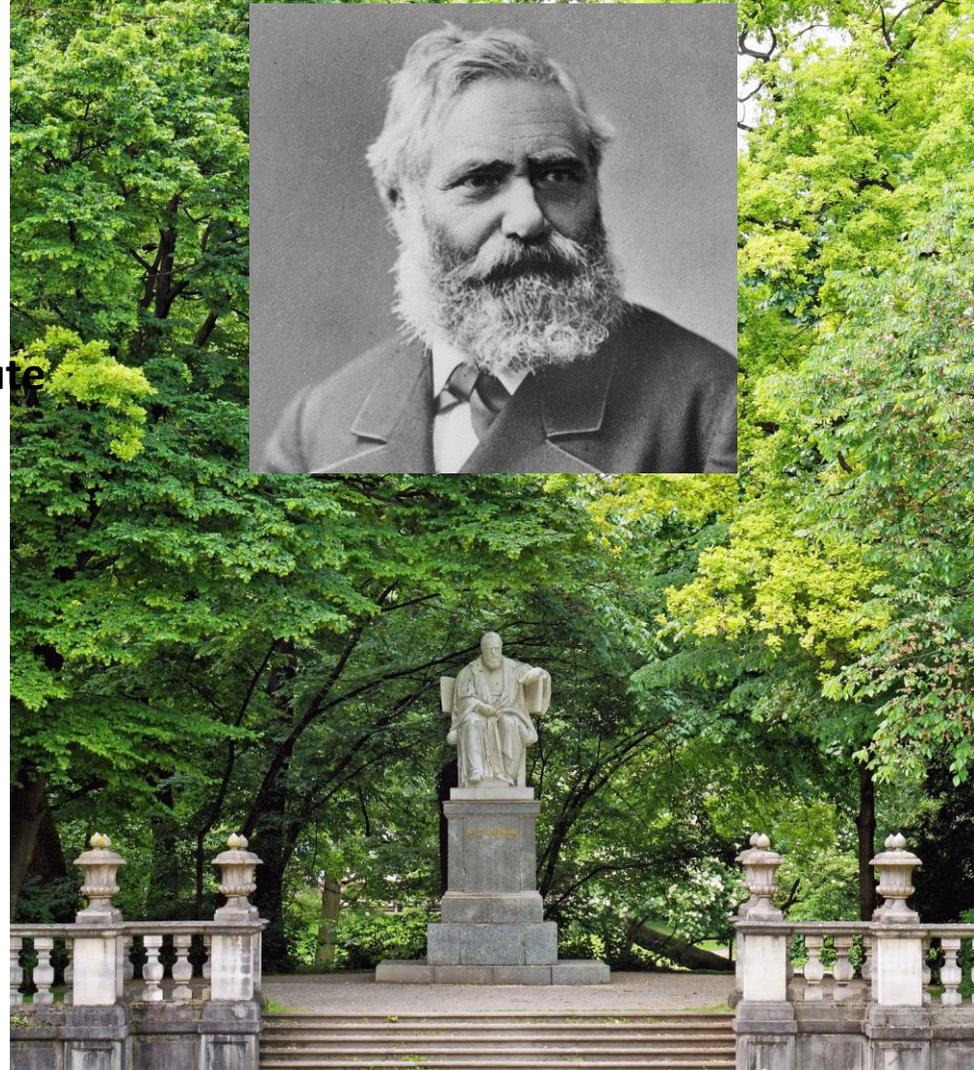
Max von Pettenkofer

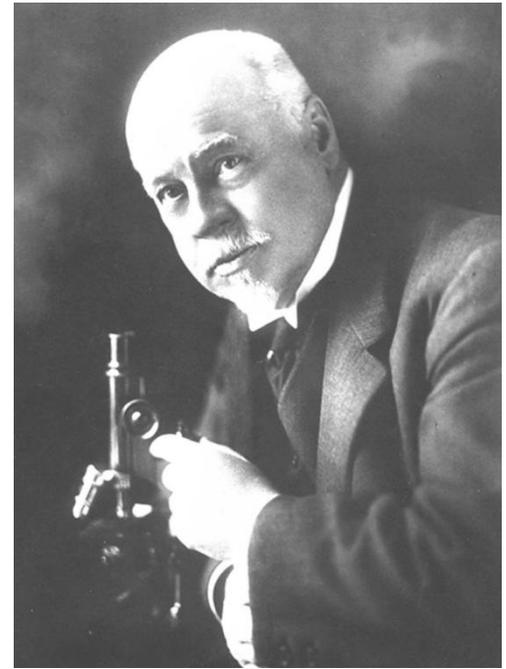
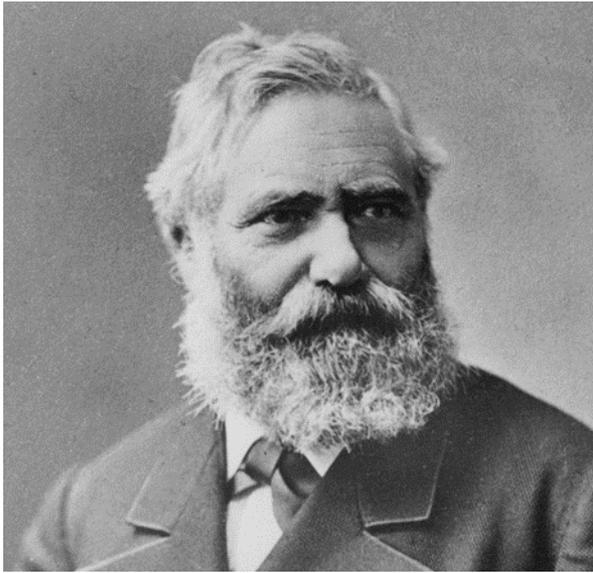
(1818-1901)

- **Pioneer of public health**
- Founder of the world's **1st hygiene institute**

...established

- the **sewage system** in Munich
- and the **central drinking water supply**





William Henry Welch had dreamed of developing an institute of hygiene for over thirty years, ever since his visit to Max von Pettenkofer's institute in Munich in the 1880s. In 1884, Welch wrote from Germany to Daniel C. Gilman, president of the Johns Hopkins University: "I have been particularly impressed with the hygienic institute which is the pride of the medical school in Munich. I hope that we may have a similar institute in Baltimore . . . hardly another department would attract in greater degree the favor of the general public than such a hygienic institute."¹

Who is Who

Programm overview

- Overview
- Formats of Classes, Exams
- Locations
- Who is Who**

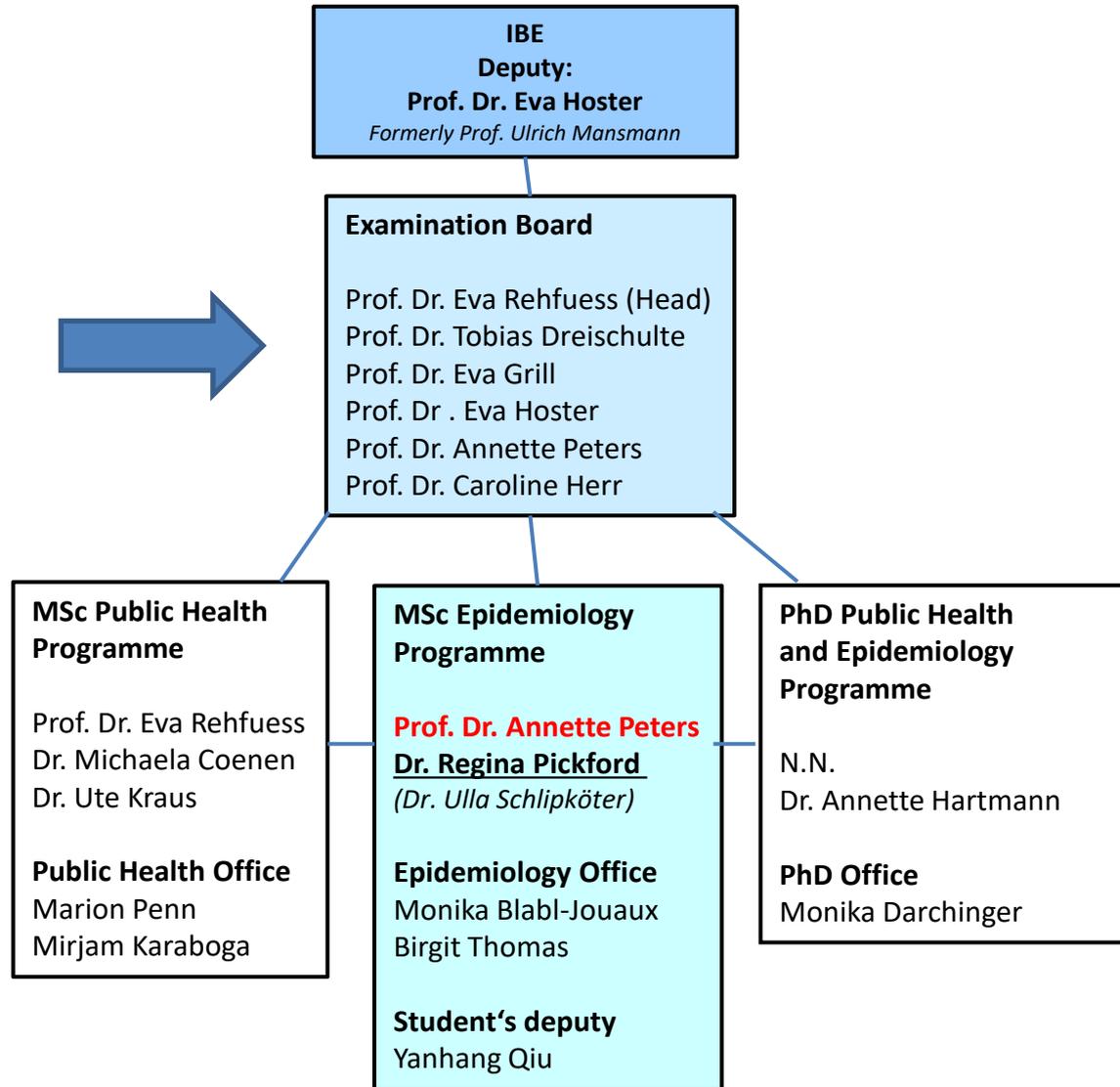
Time schedule

Learning platform

Summer term 2026

Regulations

Group assignment



Time schedule

Programm overview

Overview

Formats of Classes, Exams

Locations

Who is Who

Time schedule

October – January 25/26

Who is Who

January– March 2026

How to register

October – January 2025/2026

Learning platform

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Regulations

Group assignment

Winter term 2025-2026 - December 2025

December	08.00	08.30	09.00	09.30	10.00	10.30	11.00	11.30	12.00	12.30	13.00	13.30	14.00	14.30	15.00	15.30	16.00	16.30	17.00	17.30	18.00	18.30	December	
1. Mon																							1. Mon	
2. Tue																							2. Tue	
3. Wed	LH 1	Research Skills							K 5	R Group A													3. Wed	
4. Thu	LH 1	Epi Res Des Block 8									Quantitative Methods Ex 8			Epi Tut 7									4. Thu	
5. Fri	LH 1	Quantitative Methods QM 19				Quantitative Methods QM 19+					QM Tutorial 8			K 5	R Group B								5. Fri	
6. Sat																							6. Sat	
7. Sun																							7. Sun	
8. Mon																							8. Mon	
9. Tue	IBE Bib	Project presentation (Internship Proposals)						Season's Happy Hour															9. Tue	
10. Wed	LH 1	Research Skills							K 5	R Group A														10. Wed
11. Thu	LH 1	Epi Tut 8			Epi Tut Repition						Quantitative Methods Ex 9												11. Thu	
12. Fri	LH 1	Quantitative Methods QM 20				Quantitative Methods QM					QM Tutorial 9			K 5	R Group B								12. Fri	
13. Sat																							13. Sat	
14. Sun																							14. Sun	
15. Mon																							15. Mon	
16. Tue																							16. Tue	
17. Wed	LH 1	Research Skills							K 5	R Group A														17. Wed
18. Thu	LH 1	Quantitative Methods QM Rep				Quantitative Methods Ex 10					Quantitative Methods Ex Rep			QM Tutorial 10									18. Thu	
19. Fri	LH 1	QM Tutorial Rep				K 5	R Group B																	19. Fri
20. Sat																							20. Sat	
21. Sun																							21. Sun	
22. Mon																							22. Mon	
23. Tue																							23. Tue	
24. Wed	Christmas Eve																						24. Wed	
25. Thu	Christmas Day																						25. Thu	
26. Fri	Christmas Day																						26. Fri	
27. Sat																							27. Sat	
28. Sun																							28. Sun	
29. Mon																							29. Mon	
30. Tue																							30. Tue	
31. Wed	New Year's Eve																						31. Wed	

Time schedule

Programm overview

Overview

Formats of Classes, Exams

Locations

Who is Who

Time schedule

October – January 25/26

Who is Who

January– March 2026

How to register

January – March 2026

Learning platform

Summer term 2026

Regulations

Group assignment

Programm overview

Overview
Formats of Classes, Exams
Locations
Who is Who

Time schedule

October – January 25/26
Who is Who
January– March 2026
How to register

Learning platform

Summer term 2026

Regulations

Group assignment

Time schedule

January – March 2025

You choose your first specialisation:

- **Epidemiology** (*Prof. Grill et al.*)
- **Clinical Epidemiology:** (*Prof. Hoster et al.*)
- **Environmental, Occupational, Radiation
Epidemiology:** (*Prof. Peters et al.*)
- **Advanced Biometry:** (*Prof. Boulesteix et al.*)

*Environmental , Occupational and Radiation Epidemiology
will be offered in Winter term 2026 only*

Winter term 2025-2026 - March 2026

March	08.00	08.30	09.00	09.30	10.00	10.30	11.00	11.30	12.00	12.30	13.00	13.30	14.00	14.30	15.00	15.30	16.00	16.30	17.00	17.30	18.00	18.30	March	
1. Sun																								1. Sun
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11. Wed																								11. Wed
12. Thu	LH?																							12. Thu
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14. Sat																								14. Sat
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16. Mon	HMGU																							16. Mon
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31. Tue																								31. Tue

Environmental Epidemiology II

Exam

Programm overview

Overview

Formats of Classes, Exams

Locations

Who is Who

Time schedule

Learning platform

Summer term 2026

Regulations

Group assignment

Learning platform

You will find (almost) all information about the programme and the courses, the time schedules, slides, references, zoom links, leaflets, name and contact data of instructors at the learning platform **med.moodle** in time

Programm overview

Overview

Formats of Classes, Exams

Locations

Who is Who

Time schedule

Learning platform

Summer term 2026

Regulations

Group assignment

Learning platform

In order to get access to Moodle you first have to register for Med.moodle with your LMU Campus account and accept data protection rules. In a second step you will be enrolled in the modules, which you have chosen (e.g. Specialisation), by the MSc Epidemiology office.

Regulations

Acknowledgment of previous achievements

„In the case of previous achievements, which should be acknowledged, a request has to be made before the end of the first term“

Programm overview

Overview

Formats of Classes, Exams

Locations

Who is Who

Time schedule

Learning platform

Summer term 2026

Regulations

Group assignment

What Alumni's opine.....

“I learned to read scientific papers with a critical eye and am now a published author myself. The required internships enable the students to put their skills into practice and for me the placement developed into a rewarding job following graduation”



Rory, Staburo GmbH, Data Sciences, München

“During the specializations we had the chance to learn from people in the field, who are using the newest research methods”



Patricia @ MuRe



Basel, University Nürnberg, Geriatrics

“What distinguishes pursuing the MSc of Epidemiology ... is the program's aim to tailor your exact needs and interests. Between the internships and electives, you get the chance to focus on the topics you are passionate about”

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MASTER OF SCIENCE EPIDEMIOLOGY



MASTER OF SCIENCE

EPIDEMIOLOGY



Thank you for your attention and
have a good time with us