

# MA Environment and Society



Course Catalog  
Winter Semester 2023/24

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## About the Course Catalog

This course catalogue is meant to help you navigate the courses on offer for **winter semester 2023/24** and plan your schedule.

This overview is for this semester only. For a detailed overview of the MA Environment and Society's structure, please consult the official study and examination regulations (Prüfungs- und Studienordnung, PStO).

This document includes detailed information on your mandatory courses as well as on the range of electives (and their designated modules) that you can choose from this semester.

You must attend all mandatory courses and should select **elective courses for a total of up to 12 European Credit Transfer System (ECTS) points** per semester (1-3). Electives have been grouped into four content areas, but you can select courses freely from among them. There are no additional rules for choosing your electives.

Many elective courses change every semester/year (especially in the humanities and social sciences), so there is no guarantee that the courses listed here will be available the next academic year. If you are interested in a particular course, we recommend that you take it this semester. However, you should keep in mind that a module (to which elective courses are assigned) can be chosen only once. Courses listed in English are taught in English, courses listed in German are taught in German.

When you put together your study plan, please pay attention to the following:

- 1) the number of participants may be limited;
- 2) some courses can run in multiple time blocks on the same or on different days;
- 3) course times can overlap;
- 4) LMU is not a campus university, so always check room locations and travel times.

Please check your courses on LSF periodically as changes (dates, times, rooms) can occur last minute, especially for courses in other departments.

### How to register for courses:

Course registration needs to be completed on LMU's online platform LSF. Each course is listed with a code (Belegnummer) you can use to find it on LSF. **Please complete the course registration via the online platform LSF. Course registration on LSF will run from 25 September through 9 October 2023.** Please don't wait until the last day to sign up for courses.

**New Students:** If you are a new MA student and do not have LMU credentials yet, please fill out the excel document that was sent to you by email (2023-24\_Students' elective choices). Please send the table back to our e-mail address: [envhum@rcc.lmu.de](mailto:envhum@rcc.lmu.de), by **5 October 2023 at the latest.**

Please note that you will also need to register for exams later in the semester, using LSF. You will be informed about this additionally nearer to the exam registration times.

# Program Overview

Sem.	Core Modules (84 ECTS)					Elective Profiles (36 ECTS)
1	P1.1 Histories & Theories of E & S (6 ECTS)	P1.2 Field Laboratory in E&S (3 ECTS)	P2.1 Current Perspectives on E&S (3 ECTS)	P3.1 Survey of Methods for E&S (3 ECTS)	P4.1 Writing Skills in E&S (3 ECTS)	EP 1: Environmental Humanities EP 2: Politics and Social Sciences EP 3: Sustainability and Environmental Sciences EP 4: Practice and Outreach
2	P 5.1 Natures and Justice (6 ECTS)	P 5.2 Environmental Justice and Practice (3 ECTS)	P2.2 New Fields of Research on E&S (3 ECTS)	P3.2 Interdisciplinary Methods for E&S (3 ECTS)	P4.2 Representation Skills in E&S (3 ECTS)	
3	P6.1 Human and More-than-Human Ecologies (6 ECTS)	P 6.2 Concepts and Outreach in E&S (3 ECTS)	P 7.1 Making and Unmaking Environments (6 ECTS)		P 7.2 Inhabiting Environments (3 ECTS)	
4	P 8.1 Master Thesis Colloquium (3 ECTS)	P8 Master Thesis (27 ECTS)				

# Lecture Times Overview WiSe 23/24

Mandatory courses (Pflicht, P): 1<sup>st</sup> semester; 3<sup>rd</sup> semester

Elective courses (Wahlpflicht, WP)

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8-10	WP45 (08:30-10:00)	WP2 (08:30-10:00), WP45 (08:30-10:00)		P7.1 (08:30-10:00), WP43	WP11 (08:30-10:00)
10-12	WP36, WP44 (10:30-12:00), WP42	WP13, WP41, WP44	P3.1 P6.2	P7.2, WP10 (10:30-12:00)	WP12
12-14	WP42	WP5, WP41	WP4.2	P2.1	P1.2 (excursion days only), WP10, WP12, WP39
14-16	P6.1, WP4.1, WP14	P4.1, WP9, WP15	WP37.1 (15:00-17:00 c.t.)	P1.1 (14:30-16:00), WP37.2	P1.2 (excursion days only)
16-18	WP14	WP4.2, WP7	WP6, WP37.1		P1.2 (excursion days only)

\* unless otherwise noted, courses start c.t. (*cum tempore*) – taking place from 15 minutes past the block's starting hour to 15 minutes before the block's ending hour (for example 14:15 – 15:45); the designations c.t. (*cum tempore*) and s.t. (*sine tempore*) appear in LSF as well.

\*\* XX.1 format indicates one part of a two-part module

\*\*\* XX(1) format indicates a course option within one module

Fill in your own semester schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8-10					
10-12					
12-14					
14-16					
16-18					

## Mandatory Modules (Pflichtveranstaltungen)

### P 1 Introduction to Environment and Society

DR. HANNA STRAß-SENL, DR. ANNA ANTONOVA

#### P1.1 Histories and Theories of Environment and Society

This course provides an overview of key issues, themes, and debates within regarding Environment and Society along with their historical background. It presents and familiarizes students with relevant terms and approaches in the environmental humanities, and with different theories pertaining to the relationship between humans and their environment. It takes into account local and global contexts.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Thursday, 14:00 – 16:00
- **Location:** Edmund-Rumpler-Strasse 9 - A 111
- **Work format:** Seminar
- **Belegnummer:** 14799

#### P1.2 Connecting Theory and Practice

In parallel with the acquisition of theoretical knowledge in P1.1, students participate in field trips and hands-on activities in and around Munich. This course guides students to explore selected places relevant for our understanding of socio-ecological relationships and to learn about local and regional environmental projects. Working in teamwork exercises, students apply multi-/inter-/transdisciplinary knowledge in diverse practical contexts.

- **Language:** English
- **ECTS:** 3 ECTS Point
- **Dates:** Friday, 12:00 – 18:00
- **Location:** varies
- **Work format:** Übung
- **Belegnummer:** 14800

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### P 2 Lecture Series: New Directions in Environment and Society

#### P2.1 Current Perspectives on Environment and Society

DR. KATHERINE ARNOLD

The first part of the lecture series with varying speakers takes place in the winter semester. It familiarizes students with new research questions and topics currently developed in the field of environment and society and related disciplines.

- **Language:** English
  - **ECTS:** 3 ECTS Point
  - **SWS:** 2 hours per week
  - **Dates:** Thursday, 12:30– 14:00
  - **Location:** Katholische Hochschulgemeinde (KHG) Leopoldstr. 11, 1. OG.
  - **Work format:** Lecture
  - **Belegnummer:** 13138
- 

## P 3 Research Methods in Environment and Society

### P3.1 Survey of Methods for Environment and Society

DR. SPENCER ADAMS

The course introduces students to research methods and approaches to knowledge production in the environmental humanities and qualitative social sciences. Students are familiarized with research ethics and learn how to evaluate research processes and results, and how to assess their significance for environment and society.

- **Language:** English
  - **ECTS:** 3 ECTS Point
  - **SWS:** 2 hours per week
  - **Dates:** Wednesday, 10:00 – 12:00
  - **Location:** Edmund-Rumpler-Strasse 9 - A 023
  - **Work format:** Seminar
  - **Belegnummer:** 14801
- 

## P 4 Representation and Outreach

### P 4.1 Writing Skills in Environment and Society

DR. SPENCER ADAMS

The course teaches communication skills for academia, including different formats and genres of academic writing (abstract/essay/article/thesis). In this course, students learn about writing process and practice how to constructively reflect on their own individual experiences with the writing processes. The course includes low stakes writing assignments, in which students use writing as a tool to acquire and deepen knowledge, to recognize and establish connections between disparate fields of knowledge, and to develop their thoughts and ideas.

- **Language:** English
  - **ECTS:** 3 ECTS Point
  - **SWS:** 2 hours per week
  - **Dates:** Tuesday, 14:00 – 16:00
  - **Location:** 4th floor, Conference Room, Rachel Carson Center
  - **Work format:** Seminar
  - **Belegnummer:** 14802
-

## P 6 Critical Perspectives in Environment and Society

### P 6.1 Human and More-than-Human Ecologies

DR. POOJA NAYAK

The course focuses on the relationship between humans and more-than-humans as theorized by leading scholars and philosophers. Students study become familiar with, and apply theoretical perspectives like multispeciesism, indigenous cosmologies, new materialism, posthumanism, and alternative-futures thinking.

- **Language:** English
- **ECTS:** 3 ECTS Point
- **SWS:** 2 hours per week
- **Dates:** Monday, 14:00 – 16:00
- **Location:** 4th floor, Conference Room, Rachel Carson Center
- **Work format:** Seminar
- **Belegnummer:** 14831

### P 6.2 Concepts, Analyses, and Interpretations

DR. POOJA NAYAK

As a preparation for their final thesis students continue to practice critical thinking and their analytical and interpretative skills, selecting a case study to work on in-depth. They practice their analytical rigor. analyze and comment on advanced theoretical perspectives, and develop their own academic positionality in response.

- **Language:** English
- **ECTS:** 3 ECTS Point
- **SWS:** 2 hours per week
- **Dates:** Wednesday, 10:00 – 12:00
- **Location:** 4th floor, Conference Room, Rachel Carson Center
- **Work format:** Seminar
- **Belegnummer:** 14833

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## P 7 Landscapes and Urban Environments

### P 7.1 + P 7.2 Urban Environments: Historical Trajectories, Current Problems, Future Challenges

PROF. DR. UWE LÜBKEN

For a long time, nature and the city were considered diametrically opposed. Whereas the natural environment seemed to exist in and by itself, the city was a symbol of human creation and creativity – a second nature, a built environment. Even in disciplines explicitly concerned with the relationship between environment and society (such as environmental history), the city had to fight for its place. This view has changed fundamentally. In this seminar, we will explore the manifold interconnections between nature, culture and society in urban



environments. This includes, for example, the different transformations of urban space and urban landscapes, the role of animals in the city, the significance of rivers and the importance of natural hazards, but also questions of waste and recycling, urban mobility, pollution and the significance of parks.

- **Language:** English
- **ECTS:** 6+3 ECTS Point
- **SWS:** 4 hours per week
- **Dates:** Thursday, 08:30 – 11:45
- **Location:** 4th floor, Conference Room, Rachel Carson Center  
(except 2.11, 7.12., 11.1., 1.2. for P7.2: 2<sup>nd</sup> floor conf. room)
- **Work format:** Seminar
- **Belegnummer:** 14834 + 14835

# Electives Overview Winter Semester 23/24

## Environmental Humanities

- WP 1: La Serenissima – Environmental Explorations in Venice
- WP 2: A Bicycle Ride through American History
- WP 4: Grundlagen der Kommunikationswissenschaft
- WP 35: Das Mittelmeer – Raum und Zeit // Flüsse, Wanderungen und Territorien
- WP 36: Inventing America's Wilderness
- WP 41 Material Matters

## Politics and Social Sciences

- WP 5: Histories of Travel and Tourism in the US
- WP 6: Ethnologische Feldforschung
- WP 7: Dunkelgrüne Religion
- WP 9: Geography and Sustainability (Lecture)
- WP 39: Advanced Public Policy Analysis

## Sustainability and Environmental Sciences

- WP 10 Vielfalt des Lebens
- WP 11 Grundlagen der Ökologie, Verhaltens- und Evolutionsbiologie
- WP 12 Systematic Data and Evidence
- WP 13 Klimawandel und das Erdsystem
- WP 14 Global Cycles
- WP 15 Marine Biology
- WP 42 Naturgefahren
- WP 43 Theoretische und angewandte Hydrologie
- WP 44 Evolutionary Genetics
- WP 45 Evolutionary Ecology

## Electives (Wahlpflichtmodule)

### WP 1 Topics and Themes in Environment and Society

#### La Serenissima—Environmental Explorations in Venice

PROF. DR. CHRISTOF MAUCH

Attention: block seminar!

- **Language:** English
  - **ECTS:** 6 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** 3-8 March, 09:00 - 17:00
  - **Location:** Venice, Italy
  - **Work format:** Blockseminar
  - **Belegnummer:** 14832
- 

### WP 2 Climate Change and Society

#### Cycling and the Environment

PROF. DR. UWE LÜBKEN

This class looks at cycling as a sustainable and efficient form of mobility. By tracing one and a half centuries of cycling history, we will analyze how cycling developed from a bourgeois pastime into a quotidian mobility. We will scrutinize the decline of cycling as a result of the rapid rise of automobility and the “bicycle renaissance” of the 1970s. We will also interrogate more recent forms of bicycle cultures (e.g. critical mass events), many of which are closely associated with environmentalist ideas, practices, and protest. Finally, we will analyze environmental discourses attached to recreational and competitive forms of cycling, and discuss the role of the bicycle in urban planning.

- **Language:** English
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Tuesdays, 08:30 – 10:00
  - **Location:** Leopoldstr. 13, H1 - 1202
  - **Work format:** Seminar
  - **Belegnummer:** 14804
- 

### WP 4 Disziplinäre Perspektive: Grundlagen der Kommunikationswissenschaft

NB: This module consists of TWO parts (WP 4.1 and WP 4.2), both of which need to be taken to gain the full amount of ECTS points (BA-level)

NB: Registration in LSF runs 4.10.-8.10.2023

#### WP 4.1 Einführung in die Kommunikationswissenschaft I

PROF. DR. MARIO HAIM

Die Vorlesung für Studierende des ersten Fachsemesters führt in die Grundlagen der Kommunikationswissenschaft ein und stellt ausgewählte Fachgebiete mit zentralen Fragen, Theorien und Befunden vor. Der erste Teil der zweisemestrigen Vorlesung beschäftigt sich mit dem Selbstverständnis und der Struktur des Fachs, seinen Grundbegriffen (u.a. Kommunikation, Medien, Massenkommunikation, Öffentlichkeit), dem Mediensystem (Presse, Rundfunk, Online-Medien) sowie verschiedenen Arten von Medieninhalten und ihrer Entstehung.

- **Language:** German
- **ECTS:** 3 ECTS Points
- **SWS:** 2h per week
- **Dates:** Mondays, 14:00 – 16:00 and  
Monday, 05.02.2024: (**single course**, location: Schellingstr. 3 (S) – S 005), 14:00 – 16:00 and  
Monday, 18.03.2024: (**single course**, location: Oettingenstr. 67 (B) – B 001), 14:00 – 16:00
- **Location:** Geschw.-Scholl-Pl. 1 (M) – M 218
- **Work format:** Lecture
- **Belegnummer:** 15001

#### WP 4.2 Kommunikationsberufe I

DR. CORINNA LAUERER & DR. CLAUDIA RIESMEYER- LORENZ

Im Rahmen der Vortragsreihe Kommunikationsberufe stellen berufserfahrene Praktiker aus den zentralen Feldern der Medien- und Kommunikationsberufe verschiedene Berufsbilder vor und diskutieren Voraussetzungen und Eintrittschancen in das Berufsleben sowie die Aussichten und Karrieremöglichkeiten.

Mehr Informationen zu den einzelnen Veranstaltungen und die verbindliche Anmeldung zu den Veranstaltungen erfolgt über <https://webservices.ifkw.lmu.de/kobe>. Die Playlist der Veranstaltung ist unter <https://cast.itunes.uni-muenchen.de/#/clip-list/bnHbEdBAzi> verfügbar, allerdings werden die Veranstaltungen im aktuellen Semester ganz überwiegend in Präsenz abgehalten. Sollte es Schwierigkeiten geben mit dem persönlichen Besuch der Veranstaltung, dann wenden Sie sich bitte an [kommunikationsberufe@ifkw.lmu.de](mailto:kommunikationsberufe@ifkw.lmu.de).

- **Language:** German
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2h per week
  - **Dates:** Tuesdays, 16:00 – 18:00 and  
Wednesdays, 12:00 - 14:00  
Thursday, 19.10.2023 (**single course**, location: Geschw.-Scholl-Pl. 1 (B) – B 201) 15:00 - 20:00
  - **Location:** Oettingenstr. 67 (B) – B 001
  - **Work format:** Seminar
  - **Belegnummer:** 15228
-

## WP 5 Environments, Planning and Policy

### Histories of Travel and Tourism in the United States

PROF. DR. UWE LÜBKEN

This class will look at the history of travel and tourism in the United States. We will talk about travel writing as a genre and analyse the travelogues of both well-known and less well-known writers. We will focus on how industrialization, urbanization and technological changes have transformed tourism and scrutinize the experience of Americans abroad. Furthermore, this class will highlight how various environmental crises have given rise to new forms of travel and vacation such as slow tourism, last-chance tourism, dark tourism, and eco-tourism.

- **Language:** English
  - **ECTS:** 6 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Tuesday, 12:00 – 14:00
  - **Location:** Schellingstr. 3, S106
  - **Work format:** Seminar
  - **Belegnummer:** 13690
- 

## WP 6 Methodische Perspektive: Ethnologische Feldforschung

### Ethnologische Feldforschung

PROF. DR. MARTIN SÖKEFELD

Die Vorlesung gibt einen Überblick über Feldforschung, die methodischer „Kern“ und zentrales Element des Selbstverständnisses der Ethnologie ist. Tatsächlich umfasst Feldforschung aber verschiedene Methoden der Datenerhebung, die für unterschiedliche Fragestellungen und Forschungsthemen verwendet werden können. Themen der Vorlesung sind die Geschichte der Feldforschung, ihre erkenntnistheoretische Reflexion, Kurzeinführungen in einzelne Methoden der Datenerhebung (zum Beispiel teilnehmende Beobachtung, offene und strukturierte Interviews, Netzwerkanalyse), Methoden der Dokumentation (Feldnotizen) und Datenauswertung, die Frage der (sozialen) Konstruktion des Feldes, sowie die Ethik der Feldforschung.

(BA-level)

- **Language:** German
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Wednesdays, 16:00 – 18:00
  - **Location:** Oettingenstr. 67 (B) – B 001
  - **Work format:** Lecture
  - **Belegnummer:** 12350
- 

## WP 7 Disziplinäre Perspektive: Ethnologie Thematische Vertiefung I

## **Dunkelgrüne Religion. Religiosität und Spiritualität als Transformationsdesign für eine Andere Welt?**

DR. WOLFGANG KAPFHAMMER

Die Notwendigkeit einer Abkehr vom globalisierten Wachstumsdogma angesichts zunehmend vehementer, ökologischer wie sozialer Folgen des Klimawandels steht außer Frage. Dem religiösen, bzw. spirituellen Habitus von Individuum und Gesellschaft wird dabei eine wichtige, wenn nicht entscheidende Rolle zugeschrieben. Dies im negativen wie im positiven Sinne: einerseits wurde den christlichen Traditionen eine Hauptverantwortung für eine Haltung zugeschrieben, „sich die Erde untertan zu machen“ (die berühmte Lynn-White-These), andererseits werden die „sacred ecologies“ (Berkes) gerade indigener Völker zu einer überlegenen Umweltethik überhöht.

Das Seminar befasst sich durchaus affirmativ, wenn auch kritisch, mit der Frage, wie Mensch-Umwelt-Verhältnisse in religiösen Weltbildern vorgeprägt sein können. In einem zweiten Schritt stellt das Seminar die Frage, wie Religiosität und Spiritualität als Transformationsdesign für eine noch zu schaffende Andere Welt in Frage kommen könnten.

NB: Seminar starts in second week of semester.

- **Language:** German
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Tuesdays, 16:00-18:00
- **Location:** Oettingenstr. 67, Raum 131
- **Work format:** Seminar
- **Belegnummer:** 12376

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## **WP 9 Disciplinary Perspective: Geographical Concepts of Sustainability**

### **Geography and Sustainability**

PROF. DR. HENRIKE RAU, PROF. DR. GORDON WINDER, PROF. DR. JOHANNES GLÜCKLER, PROF. DR. MATTHIAS GARSCHAGEN

This lecture explores current issues in sustainability and the role of geography, both human and physical geography, in sustainability studies. It addresses what ‘sustainable development’ means and how and why it is a contested field. Various approaches to sustainability in economic geography, tourism geography, urban geography, environmental policy, climatology, hydrology, and resource and environmental management are introduced and discussed.

- **Language:** German/English
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Tuesdays, 14:00 – 16:00
  - **Location:** Richard-Wagner-Str. 10 - D 114
  - **Work format:** Lecture
  - **Belegnummer:** 20179
-

## WP 10 Disziplinäre Perspektive: Grundlagen allgemeine und organismische Biologie

### Vorlesung Vielfalt des Lebens – Tree of life

PROF. DR. FRANK WOLFGANG, PROF. DR. PETER GEIGENBERGER, PROF. DR. MARC GOTTSCHLING, PROF. DR. JOACHIM HAUG, PROF. DR. GUDRUN KADEREIT, PROF. DR. ANDREAS KLINGL, PROF. DR. DARIO LEISTER, PROF. DR. SILKE WERTH

Die Vorlesung Formen- und Artenvielfalt vermittelt einen Eindruck über die komplette organismische Vielfalt und erläutert die Evolution, die zu dieser geführt hat. Organismengruppen, die in der Vorlesung besprochen werden, umfassen diverse Einzeller, Pilze, Pflanzen und Tiere, inklusive einer kurzen Einführung in die Evolution des Menschen. Für die jeweiligen Organismen werden die morphologischen Merkmale besprochen, u.a. die intrazellulären Besonderheiten, der Aufbau der Gewebe und Organe sowie die Individualentwicklung (Ontogenese), und in einen evolutionären Zusammenhang gestellt. Wo angebracht, werden auch Fossilbefunde erläutert. Anhand der vorgestellten Merkmale wird im Rahmen der Phylogenetik die Merkmalsevolution entlang verschiedener evolutionärer Linien rekonstruiert. Dadurch wird ein Gesamtbild der Evolution der Organismen erzeugt, welches als Grundlage für Kurse in den weiteren Semestern dient. Die Vorlesung wird von wechselnden Dozenten abgehalten.

(BA-Level)

- **Language:** German
- **ECTS:** 6 ECTS Points
- **SWS:** 4 hours per week
- **Dates:** Thursdays, 10:30 – 12:00 and Fridays, 12:15-13:45
- **Location:** Butenandtstr. 13 (F) - Liebig
- **Work format:** Lecture
- **Belegnummer:** 19059

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## WP 11 Disziplinäre Perspektive: Grundlagen Ökologie, Verhaltensbiologie und Evolutionsbiologie

### Vorlesung Grundlagen der Ökologie, Verhaltensbiologie und Evolutionsbiologie

PROF. DR. NIELS DINGEMANSE, PROF. DR. JOACHIM HAUG, PROF. DR. HERWIG STIBOR, PROF. DR. JOCHEN WOLF

Dieses Modul präsentiert und veranschaulicht grundlegende Konzepte in Ökologie und Evolutionsbiologie. Es beleuchtet und integriert die Prozesse, über verschiedene Organisationsebenen: Individuen, Populationen, Arten und Gemeinschaften. In der Vorlesung werden die Zusammenhänge zwischen diesen Ebenen der biologischen Komplexität untersucht. Die Studierenden lernen, wie die jeweiligen Stufen von der Umwelt beeinflusst werden (Ökologie) und im Laufe der Zeit erbliche Veränderungen erfahren (Evolution).

- **Language:** German
- **ECTS:** 3 ECTS Points

- **SWS:** 2 hours per week
  - **Dates:** Fridays, 08:30 – 10:00
  - **Location:** Großhad. Str. 2 (B) - Gr. Biologie B00.019
  - **Work format:** Lecture
  - **Belegnummer:** 19063
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## WP 12 Methodology: Systematic Data and Evidence

### Lecture: Systematic Data and Evidence

PD DR. ANDREAS BECK, PROF. DR. GUDRUN KADEREIT, DR. ANNEKE VAN HETEREN, PROF. DR. MARIE VERANSO EPSE LIBALAH, PROF. DR. SILKE WERTH

A series of lectures will discuss the following topics: paleontological and biogeographical data; speciation and radiations; diversity hotspots; principles of phylogenetic tree inference; introduction to biological collecting and collections (including visits to the Bavarian Natural History collections); taxon-specific approaches and problems (e.g., species concepts in bacteria, species concepts in higher organisms, the morpho species concept in paleobiology); role of organismal interactions in the evolution of adaptation; role of systematics in evolutionary biology; the meaning of classification, identification, nomenclature and taxonomy.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 4 hours per week
- **Dates:** Fridays, 10:00 – 14:00
- **Location:** Großhad. Str. 2 (C) - C 00.013
- **Work format:** Lecture
- **Belegnummer:** 19149

**NB: prior knowledge in the field of biology is recommended.**

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## WP 13 Disziplinäre Perspektive: Globaler Wandel und das Erdsystem

### Klimawandel und das Erdsystem

PROF. DR. JULIA PONGRATZ

Covered topics: - Scientific state of the art on climate change and climate impacts - Climate history (paleoclimate), causes of natural and anthropogenic climate change - Functionality and application of micrometeorological measurement techniques - Major consequences of climate change in the Earth system and in the human-Earth system: atmosphere, oceans, coasts, cryosphere, hydrometeorological extremes, agriculture, economy, bioclimate - Inventory of current research fields: Consequences and impairments of the natural, economic and cultural environment; region-specific vulnerabilities and resilience, - Essentials of national and international climate policy; Legal basis, directives & laws; Technical, economic and political options for climate protection; Working methods of the IPCC - Introduction to the basics of climate modeling - Physical and technical



foundations, scales and scaling: AOGCM & RCM, nesting, downscaling, uncertainties and errors - Scenarios and scenario development.

- **Language:** English
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Tuesdays, 10:00 – 12:00
  - **Location:** Richard-Wagner-Str. 10 - D 116
  - **Work format:** Lecture
  - **Belegnummer:** 20160
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## WP 14 Disciplinary Perspective: Environmental Geobiology

**NB: This module consists of TWO parts (WP 4.1 and WP 4.2), both of which need to be taken.**

Introduction to biogeochemical global cycles and methods to acquire and analyze geobiological data in this context. In detail, the module includes *WP14.1 Global Cycles: Lecture* and *WP 14.2 Global Cycles: Tutorial*. The lecture imparts theoretical background on biogeochemical global cycles of relevant elements like carbon, nitrogen, phosphorous, iron, and sulfur. In each tutorial session, one student gives a 15-minute presentation on either a review article or original research article dealing with one of the biogeochemical processes discussed in class the week before, followed by a group discussion. Articles are assigned by the instructor but can also be suggested by the students.

### WP 14.1 Global Cycles (Lecture)

PROF. DR. WILLIAM ORSI, DR. GONZALO GOMEZ-SAEZ

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Mondays, 14:00 – 16:00
- **Location:** Richard-Wagner-Str. 10 - D 016
- **Work format:** Lecture
- **Belegnummer:** 20401

### WP 14.2 Global Cycles (Tutorial)

PROF. DR. WILLIAM ORSI, DR. GONZALO GOMEZ-SAEZ

- **Language:** English
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Mondays, 16:00 – 18:00
  - **Location:** Richard-Wagner-Str. 10 - D 016
  - **Work format:** Lecture
  - **Belegnummer:** 20402
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## WP 15 Disciplinary Perspective: Marine Biology

### Marine Biology

PROF. DR. GERT WÖRHEIDE

The lecture introduces the following content: Basic oceanography (geography, geomorphology, plate tectonics and water circulation systems of oceans) - Physical and chemical factors in marine ecosystems - Adaptations of marine organisms - Geobiology of marine communities - Interaction of abiotic and biotic factors in different marine ecosystems - Marine biomes and marine biogeography. **Important: In order to be able to follow the lecture and to pass the exam, prior knowledge in the field of biology is a prerequisite (e.g. know what Cnidaria or Proifera are)! If you do not have this kind of knowledge, it is recommended to attend an introductory lecture like WP 10 before choosing this lecture.**

- **Language:** English
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Tuesdays, 14:00 – 16:00
  - **Location:** Richard-Wagner-Str. 10 - D 016
  - **Work format:** Lecture
  - **Belegnummer:** 20408
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## WP 16 Exploring Local Environmental Practices

### Field Trip: Exploring Environmental Practices in Munich and Beyond

- **Language:** English
  - **ECTS:** 3 ECTS
  - **Dates:** tbd
  - **Location:** tbd
  - **Work format:** Field Trip
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## WP 35 Disziplinäre Perspektive: Geschichtswissenschaft

**NB:** This semester, there are two seminars on offer in this module. You can receive ECTS points for only one.

### Flüsse, Wanderungen und Territorien. „Reisende“ Konzepte der europäischen Umweltgeschichte

DR. ANNE FRIEDRICHS

Viele Konzepte einer europäischen Umweltgeschichte bewegen sich im Schnittfeld zwischen Natur- und Kulturwissenschaften und treten in Form von Analogien und Metaphern auf. So

können beispielsweise „Flüsse“ und „Ströme“ in naturwissenschaftlicher Perspektive als elementare Transportbewegungen verstanden werden, die in ein Gleichgewicht münden können. Solche Beweglichkeitsvorstellungen spielen auch in neueren kultur- und sozialwissenschaftlichen Forschungen etwa zu Datenströmen und Infrastrukturen eine Rolle. Umgekehrt werden Begriffe aus der sozial- und kulturwissenschaftlichen Forschung auch auf Naturphänomene angewandt, wenn etwa vom „Vogelzug“, den „Wanderungen der Lachse“ oder der „great migration“ in der Serengeti die Rede ist. Schließlich setzt sich die umweltgeschichtliche Forschung ebenfalls mit politisch und öffentlich diskutierten Konzepten wie dem „Nationalpark“, dem „Wildreservat“ oder den „Territorien“ verschiedener Arten auseinander.

Die Übung befasst sich mit Konzepten einer europäischen Umweltgeschichte, die zwischen den Kultur- und Naturwissenschaften und einer breiteren Öffentlichkeit „reisen“. Solche Konzepte bleiben nicht gleich, sondern verändern ihre Bedeutung etwa durch ihre Anwendung auf neue Wissensbereiche. Mit Schwerpunkten auf drei Wortfeldern – „Flüsse“, „Wanderungen“ und „Territorien“ – widmen wir uns in der Übung der Geschichte dieser und verwandter Begriffe (z.B. „Habitat“, „Reservat“ und „Umwelt“). Darüber hinaus untersuchen wir neuere Studien der Umweltgeschichte daraufhin, wie sie mit diesen Konzepten arbeiten. Welche Verständnisse über den Menschen und seine Stellung in der „Natur“ liegen diesen Forschungen und Konzepten jeweils zugrunde?

- **Language:** German
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Wednesdays, 13:00 – 15:00
- **Location:** Schellingstr. 12 - K 327
- **Work format:** Übung
- **Belegnummer:** 09307

## **Das Mittelmeer – Raum und Zeit**

LEONARD HORSCH

Fernand Braudels *Das Mittelmeer und die mediterrane Welt in der Epoche Philipps II.* (1949) wird oft als das wichtigste historiographische Werk des 20. Jahrhunderts bezeichnet. Das ist auch der Tatsache geschuldet, dass Braudel Geographie und Wirtschaft des Mittelmeerraums ebenso geschickt wie minutiös als fundamentale Bedingungen für die Sozial-, Kultur- und Ereignisgeschichte in dieser Region im 16. Jahrhundert herausgearbeitet hat. Die starke Betonung geographischer und wirtschaftlicher Faktoren hat selbstverständlich auch zu Kritik und zu alternativen Modellen geführt – nicht zuletzt in David Abulafias äußerst erfolgreichem *The Great Sea* (2011), das im Gegensatz zu Braudel u. a. chronologisch vorgeht. Die Debatte über das Braudel'sche Paradigma gehört zu den wichtigsten Diskussionen in der internationalen Geschichtswissenschaft.

In der Übung werden wir uns zunächst mit dem Inhalt von Braudels *Das Mittelmeer* zusammen mit der erstaunlichen Entstehungsgeschichte und den noch erstaunlicheren Wurzeln von Braudels Konzept auseinandersetzen. Danach gehen wir ebenso auf die wichtigsten alternativen Modelle wie auf von Braudel abgeleitete, aber in den Detailergebnissen abweichende Studien ein. Zuletzt spüren wir den Auswirkungen nach, die Braudels Modell auf die Globalgeschichte hatte, namentlich auf die Idee, dass es nicht nur ein Mittelmeer gibt.

- **Language:** German
  - **ECTS:** 6 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Friday, 20.10.2023, 13:00 – 15:00  
Friday, 10.11.2023, 13:00 – 17:00  
Friday, 15.12.2023, 13:00 – 17:00  
Friday, 19.01.2024, 13:00 – 17:00  
Friday, 02.02.2024, 13:00 – 17:00
  - **Location:** Historicum, K 327 (except for 19.01.2024: Historicum, K 226)
  - **Work format:** Blockübung
  - **Belegnummer:** 09302
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## WP 36 Disciplinary Perspective: Basic Theories and Concepts in Historiography

### Inventing America's Wilderness

DR. KATHERINE ARNOLD

'Wilderness' is a key theme in the environmental humanities, reflecting its revered status within American environmentalism and its national identity. It has also been the subject of substantial debate. Most notably, Roderick Nash has defended wilderness, whilst William Cronan has positioned it as a social construction (put crudely, a figment of our imagination rather than something real). Others, such as Mark Spence, have highlighted how the creation of protected wilderness areas in the United States has forcibly removed Native Americans from their lands, while some have pointed out the gendered and racialized histories of wilderness. Is there even such a thing as an 'untouched' or 'pristine' wilderness? To try and understand what 'wilderness' is, this course will take you through topics like German Naturphilosophie and Romanticism; industrialization and the Industrial Revolution; European and American imperialism; the American National Parks; and the origins of environmentalism and environmental activism, in order to deconstruct our own preconceived notions about this highly contested term.

- **Language:** English
  - **ECTS:** 6 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Mondays, 10:00 – 12:00
  - **Location:** Amalienstr. 73A - 103
  - **Work format:** Lecture
  - **Belegnummer:** 13705
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## WP 37 Disziplinäre Perspektive: Kunstgeschichte

**NB: This module consists of TWO parts (WP 37.1 and WP 37.2), both of which need to be taken to gain the full amount of ECTS points (BA-level)**

### WP37.1 Künstlerische Revolution im Wald von Fontainebleau: Die Schule von Barbizon

PROF. DR. HUBERTUS KOHLE

Ganz in der Nähe von Paris siedelt seit dem frühen 19. Jahrhundert eine Reihe von Malern, die einerseits den Kontakt zu ihrem großstädtischen Kundenstamm nicht verlieren will, andererseits

sich ganz dem Naturstudium hingibt. Dazu gehören Hauptvertreter der französischen Landschafts- und Genremalerei wie Théodore Rousseau und Jean-Francois Millet. Im Seminar sollen folgende Felder bearbeitet werden:

- Die Bedeutung der Landschaftsmalerei am Beginn der Moderne
- Der Wald von Fontainebleau in seiner historischen und natürlichen Verfasstheit
- Ausgewählte Werke der Hauptvertreter
- Ausblick auf spätere Künstlerkolonien

Kenntnisse des Französischen sind von Vorteil.

- **Language:** German
- **ECTS:** 6 ECTS
- **SWS:** 2h per week
- **Dates:** Wednesdays, 15:00 – 17:00
- **Location:** Zentnerstr. 31 - 510
- **Work format:** Übung
- **Belegnummer:** 09391

### **WP37.2 Natur als Inspiration: Kunst und Ökologie im langen 19. Jahrhundert**

PROF. DR. HUBERTUS KOHLE

Die Ökologie ist ein Megathema, das aber in der Kunstgeschichte bislang merkwürdig unterbelichtet geblieben ist. Virulent wird sie vor allem im 19. Jahrhundert, und zwar als Folge der Industrialisierung, mit der die Umweltbelastung in großem Maßstab einsetzte. Genau diesem Zusammenhang will sich die Vorlesung widmen, und zwar mit Blick auf die Vereinigten Staaten, Großbritannien, Frankreich und Deutschland.

- **Language:** German
- **ECTS:** 3 ECTS
- **SWS:** 2h per week
- **Dates:** Thursdays, 14:00 – 16:00
- **Location:** Geschw.-Scholl-Pl. 1 (M) - M 118
- **Work format:** Lecture
- **Belegnummer:** 09525

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### **WP 39 Methodische Vertiefung: Public Policy**

#### **Advanced Public Policy Analysis**

DR. YAJIAO CHEN

The course introduces students to the concepts and practice of public policy analysis. It focuses on helping students understand what public policy analysis is and provides them with a toolkit of practical and applied methods for analyzing public policy issues. Specifically, it introduces students to policy research for analyzing complex, real-world issues involving uncertainty, complexity, ethical controversy, and multiple actors with diverse interests. The course emphasizes the ability to define the public policy problem to be studied, articulate a research question, and apply a conceptual framework to inform the research question.

- **Language:** English
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Fridays, 12:00 – 14:00
  - **Location:** Oettingenstr. 67 - 061
  - **Work format:** Seminar
  - **Belegnummer:** 15053
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## WP 41 Sustainability, Infrastructure and Technology

### **Material Matters – Degrowth, Sufficiency, and Sustainability in Urban Environments**

PROF. DR. SONJA DÜMPELMANN

This joint multidisciplinary seminar is open to students from LMU and TUM. It offers an opportunity for students in the humanities as well as in the applied design and engineering disciplines at TUM and LMU to come together and discuss how green technologies, innovative infrastructures, and new lifestyles can contribute to new economic patterns and philosophies that seek to prevent extractive practices and slow down environmental destruction.

We will explore some of the key terms employed in discussions related to the sustainable transformation of our built environment. What do “degrowth,” “resilience,” “sufficiency,” and “sustainability” describe and mean (and in which context), and how are they applied to the built environment? How do ideas of degrowth, resilience, sufficiency, and sustainability become manifest in the built environment? What are historic precedents, and what might future developments of sufficient urban living look like?

To address these questions, students will be asked to identify a particular material, object, or organism (e.g., a particular type of mineral, metal, brick, plastic, paper, wood, plant, animal, ...) which they will explore throughout the semester. While texts on the developmental paradigms will provide our overall framework, texts on material culture will give examples for thinking with and about the materials, objects, and organisms we use to shape and build our urban environments. Seminar discussions of these accompanying texts will alternate with course lectures, student presentations, and field trips.

- **Language:** English
  - **ECTS:** 6 ECTS Points
  - **SWS:** 4 hours per week
  - **Dates:** Tuesdays, 10 – 14
  - **Location:** TUM, Raum 0999 (Bitte beachten Sie: der Kurs findet in Räumlichkeiten der Technischen Universität München statt! <https://portal.mytum.de/onlinehelp/sonstiges/raumfinder>)
  - **Work format:** Seminar
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## WP 42 Disziplinäre Perspektive: Naturgefahren

### Naturgefahren – Ursachen, Folgen, Handlungsoptionen

PROF. DR. LUKAS LEHNERT

The lecture covers the following topics:

- Research on hazards, risks, and catastrophes
- Danger and risk analysis
- Frequency and magnitude of natural processes
- The emergence of natural risks through
  - o Meteorological/hydrological/glaciological processes (e.g., tropical cyclone storms, heat and cold waves, flooding, droughts, storm surges and flash floods, permafrost melting)
  - o Geological/geomorphological processes (e.g. earthquakes, volcanic eruptions, erosion)
  - o Biological processes (e.g., epidemics and wildfires)
- Causes, consequences, and possible actions (sample case studies)
- Natural catastrophe management: prediction, prevention, and handling of natural catastrophes
- Impacts of natural hazards on societal processes
- The role, tasks, and potential of geography in research on catastrophes

- **Language:** German
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Mondays, 10:00 – 14:00; 7 Termine: 08.01., 15.01., 22.01., 29.01., 05.02. (letzte VL-Woche), 12.02. (Rosenmontag), 19.02.
  - **Location:** Richard-Wagner-Str. 10 - D 105
  - **Work format:** Lecture
  - **Belegnummer:** 20157
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## WP 43 Disziplinäre Perspektive: Hydrologie

### Theoretische und Angewandte Hydrologie

PROF. DR. RALF-PETER LUDWIG

The lecture "Theoretical and Applied Hydrology" covers the following topics: Systems theory, systems analysis, systems synthesis

- Definitions of systems
- Linear and non-linear systems
- Basics of modeling (conservation laws, energy, mass, mathematics, differential equations)
- Modeling in hydrology (analog, conceptual, physical)
- Physics of natural transport processes (diffusion, turbulence)
- Steady state flow, Darcy's law, Manning's equation
- Elements of water management (rivers, reservoirs, turbines, etc.)

- Water abundance and quality management, water resources planning
- Water Framework Directive
- Integrated and sustainable water resource management (IWRM, SWRM)

- **Language:** German
  - **ECTS:** 3 ECTS Points
  - **SWS:** 2 hours per week
  - **Dates:** Tuesdays, 08:00 – 10:00
  - **Location:** Luisenstr. 37 (A) – A 042
  - **Work format:** Lecture
  - **Belegnummer:** 20163
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## WP 44 Disciplinary Perspective: Evolutionary Genetics

### Lecture: Evolutionary Genetics

PROF. DR. RICHARD MERRILL, PROF. DR. JOCHEN WOLF, PROF. DR. JOHN PARSCH

The lecture provides an introduction to evolutionary genetics on master's level and covers both classical and modern topics, including natural selection, adaptation, genetic drift, neutral theory, human evolution, molecular evolution, speciation, quantitative genetics, and genome evolution. Additional course materials are available on Moodle:

<https://moodle.lmu.de/enrol/index.php?id=10222>; Key: EvoGenLecture

**NB: prior knowledge in the field of biology is recommended.**

- **Language:** English
  - **ECTS:** 6 ECTS Points
  - **SWS:** 4 hours per week
  - **Dates:** Mondays, 10:30 – 12:00  
Tuesdays, 10:30 - 12:00
  - **Location:** Großhad. Str. 2 (B) - Kl. Biologie 2
  - **Work format:** Lecture
  - **Belegnummer:** 19148
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## WP 45 Disciplinary Perspective: Evolutionary Ecology

### Lecture: Evolutionary Ecology

PROF. DR. NIELS DINGEMANSE, DR. HANNAH SCHARF, PROF. DR. HERWIG STIBOR

The lecture is divided in 3 parts.

The first part is a broad perspective on the history of ideas and thinking in evolutionary biology, revealing the connections between the different disciplines in ecology and evolution, as well as



their origins. From a scientific point of view, it examines the interplay between genetic changes and natural selection.

The second part of the lecture is a primer on general principles of ecology. This part of the lecture is mainly repeating basic and general principles of ecology to bring EES students to a common knowledge base, independent of their educational background during their bachelor studies. Students will learn and discuss the relationships between the individual and its environment, the dynamics of populations and the structure and function of communities.

The third part focusses on the principles of behavioural ecology, introducing optimality approaches and the concept of trade-offs to explain variation in behaviour and life-history from an adaptive perspective. These principles are applied to understand life-history variation, optimal foraging strategies, mating strategies, parental care and conflict, and predator-prey interactions.

**NB: prior knowledge in the field of biology is recommended.**

- **Language:** English
  - **ECTS:** 6 ECTS Points
  - **SWS:** 4 hours per week
  - **Dates:** Mondays, 08:30 – 10:00  
Tuesdays, 08:30 – 10:00
  - **Location:** Großhard. Str. 2 (B) - KL. Biologie 2
  - **Work format:** Lecture
  - **Belegnummer:** 19403
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Should you have any questions or trouble with registration, please do not hesitate to contact your MA coordinators at [envhum@rcc.lmu.de](mailto:envhum@rcc.lmu.de).