

**Environmental Studies Certificate Program
(PStO 2022)**



**Course Catalog Winter Term 2025/26
As of 11 September 2025**

Please register for courses as soon as possible, rather than waiting until the last day of registration on October 6th.

Important note for exams: ALWAYS REGISTER FOR YOUR EXAMS (Prüfungsanmeldung) in January 2026 VIA LSF (even if lecturers have additional registration lists or tell you otherwise).

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P 1 International and Interdisciplinary Perspectives on Environment and Society (Mandatory Module)

DR. ADAMS SPENCER, UNIV. PROF. DR. SONJA DÜMPELMANN, DR. POOJA NAYAK

Lunchtime Colloquium: Current Perspectives on Environment and Society

The Lunchtime Colloquium series consists of short, 20–30 minute presentations by RCC fellows. The talks are based on the fellow's own research. Designed to stimulate discussion, the presentations are accessible and are aimed at a non-specialist audience. All talks are free and open to the public. The talks may be of interest to undergraduate and graduate students, or to anyone with an interest in environmental issues.

- **Language:** English
- **ECTS:** 2 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Thursday, 12 pm - 2 pm
- **Start date:** 16.10.2025 **End date:** 05.02.2026
- **Location:** Katholische Hochschulgemeinde (KHG) Leopoldstr. 11, 1. OG.
- **Course format:** presentations
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 13138

DR. SUSANNE B. UNGER

Reading Course: International Perspectives

The Reading Course is the second part of the basic mandatory module of the Certificate Program. It is designed to give an overview and serve as an introduction to the different fields and disciplines related to Environmental Studies. Students must attend this course over two semesters and are invited to actively shape both structure and content. Lively discussions form the core of the course, based on weekly presentations by course participants.

- **Language:** English
- **ECTS:** 1 ECTS Point
- **SWS:** 2 hours per week
- **Dates:** Thursdays, 14:15 - 15:45
- **Start date:** 16.10.2025 **End date:** 05.02.2026
- **Location:** Leopoldstr. 11a, Room 415
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 – 06.10.2025
- **Course catalog no:** 14860

Humans in the Environment

WP 3 Sociological Fields

DR: VICTORIA SCHWARZ-VON-GRODDECK

Einführung in die Organisationssoziologie

This module consists of TWO parts (lecture and tutorial). Students need to complete BOTH parts to earn the full number of ECTS points.

If you are unable to register via LSF but want to attend this lecture, please write to envstudies@rcc.lmu.de and we will try to sign you up via the “Restplatzvergabe.”

Die Vorlesung führt in die Spezialdisziplin der Organisationssoziologie ein. Anhand aktueller Themen wie Digitalisierung und technischer Wandel, Entscheidungsfindung unter komplexen Bedingungen, der Skandalisierung und Moralisierung organisationalen Handelns sowie dem Diskurs um Work-Life-Balance werden zentrale Forschungsfelder, Begriffe und Entwicklungslinien der Organisationssoziologie vorgestellt und kritisch reflektiert. Die Veranstaltung bietet sowohl einen fundierten Einblick in gegenwärtige Debatten des Fachs als auch einen systematischen Überblick über seine historische und theoretische Entwicklung.

- **Language:** German
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Mondays, 12:15 - 13:45, Tutorial biweekly Fridays, 10:15 - 11:45
- **Location:** Geschwister-Scholl-Pl. 1 (M) - M 014
- **Course format:** Lecture and “Tafelübung”
- **Online registration period:** until 18.09.2025
- **Course catalog no:** 15165 + 15166

DR: IMKE SCHMINCKE

Einführung in die Geschlechtersoziologie

This module consists of TWO parts (lecture and tutorial). Students need to complete BOTH parts to earn the full number of ECTS points.

If you are unable to register via LSF but want to attend this lecture, please write to envstudies@rcc.lmu.de and we will try to sign you up via the “Restplatzvergabe.”

Die Zugehörigkeit zu einem Geschlecht hat in unserer Gesellschaft für alle Menschen eine große Relevanz, sie ist Teil der eigenen Identität, Teil normativer Erwartungen und sie muss in der Regel eindeutig zweigeschlechtlich, also entweder männlich oder weiblich sein. Die Zugehörigkeit zu einem Geschlecht kann darüber hinaus über den Zugang zu Ressourcen und die Möglichkeiten gesellschaftlicher Teilhabe entscheiden, diese regulieren und begrenzen. Von daher hat Geschlecht auch viel mit sozialer Ungleichheit zu tun. Auf jeden Fall ist Geschlecht in mehrfacher Hinsicht eine soziale Tatsache und daher für die Soziologie ein wichtiger Gegenstandsbereich.

In dieser Vorlesung soll in die Geschlechtersoziologie eingeführt werden. Wir werden uns mit den Ursprüngen der Geschlechterforschung beschäftigen, mit wichtigen Theorien zur Erklärung der

Geschlechterunterschiede und ihrer sozialen Folgen sowie mit zentralen Themen und Konzepten wie Arbeit, Care, Körper und Sexualität, Sex & Gender und Intersektionalität..

- **Language:** German
 - **ECTS:** 6 ECTS Points
 - **SWS:** 2 hours per week
 - **Dates:** Tuesdays, 14:15 - 15:45, Tutorial Mondays, 16:15 - 17:45
 - **Location:** Geschwister-Scholl-Pl. 1 (A) - A 125, Tutorial Konradstr. 6 - 209
 - **Course format:** Lecture and "Tafelübung"
 - **Online registration period:** until 17.09.2025
 - **Course catalog no:** 15167 + 15168
-

WP 4 Environmental Anthropology I

PROF. DR. EVELINE DÜRR

Ethnographien der Umweltethnologie

In diesem Lektürekurs lesen wir vorrangig Ethnographien, die sich mit Umweltthemen befassen. Neben ausgewählten Klassikern liegen die regionalen Schwerpunkte auf den Amerikas und auf Ozeanien. Gern können auch eigene Vorschläge eingebracht werden. **Das Seminar wird als Blockveranstaltung stattfinden.**

- **Language:** German
 - **ECTS:** 6 ECTS Points
 - **SWS:** 2 hours per week
 - **Dates:** Thursdays, 10:15- 11:45
 - **Location:** Oettingenstr. 67 - 131
 - **Course format:** Seminar
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 12397
-

WP 31 Sociology and Society

DR. GINA ATZENI

Neuzeit

Anwesenheitspflicht in der 1. Veranstaltungsstunde! Sollten Sie aus triftigen Gründen nicht teilnehmen können, so informieren Sie den/die Dozenten/Dozentin rechtzeitig. Unentschuldigtes Fehlen in der 1. Veranstaltungsstunde bedeutet automatisch den Verlust des Kursplatzes. Attendance during the first session is mandatory in order to stay registered for the course. If you have a valid reason for missing the first session, please contact the instructor beforehand. Any unexcused absences will result in being dropped from the course.

Neuzeit" ist nicht nur eine Epochenbeschreibung, sondern prägt als Selbstverständnis bis heute unsere Denkstile und Sozialformen. Im Seminar nehmen wir einige der kulturelle Formationen, Knotenpunkte zwischen Denk- und Sozialformen, in den Blick, die uns als typisch neuzeitlich gelten, um daran besser zu verstehen, wie in der Neuzeit und durch die Neuzeit Welt neu gedacht und neu geformt wurde, wie Denken und Formen zusammenhängt und wie wir selbst als Soziologinnen und Soziologen in diesen Zusammenhang verstrickt sind.

- **Language:** German
- **ECTS:** 6 ECTS Points (not 9 ECTS, as stated in LSF)
- **SWS:** 2 hours per week
- **Dates:** Mondays, 10:15-11:45
- **Location:** Konradstr. 6 - 208
- **Course format:** Seminar
- **Online registration period:** until 17.09.2025, 1. Fachsemester: 29.09.2025 - 01.10.2025
- **Course catalog no:** 15257 + 15233

DR. AGNIESZKA ALTHABER

Lektürekurs Gender of Capital

Anwesenheitspflicht in der 1. Veranstaltungsstunde! Sollten Sie aus triftigen Gründen nicht teilnehmen können, so informieren Sie den/die Dozenten/Dozentin rechtzeitig.

Unentschuldigtes Fehlen in der 1. Veranstaltungsstunde bedeutet automatisch den Verlust des Kursplatzes. Attendance during the first session is mandatory in order to stay registered for the course. If you have a valid reason for missing the first session, please contact the instructor beforehand. Any unexcused absences will result in being dropped from the course.

Neben der zunehmenden Vermögensungleichheit rückt auch die eklatante Vermögenslücke zwischen Frauen und Männern verstärkt in den Fokus aktueller Forschung. In diesem Seminar wird ein zentrales Werk dieser Debatte behandelt: „The Gender of Capital – How Families Perpetuate Wealth Inequality“ von Céline Bessière und Sibylle Gollac. Ausgehend von einer ethnografischen Langzeitstudie und umfassenden Archivanalysen zu Scheidungsverfahren, Nachlassregelungen und weiteren familiären Vermögensentscheidungen in Frankreich rekonstruieren die Autorinnen zentrale Mechanismen der Fortschreibung von geschlechterbezogenen Vermögensungleichheiten. Der theoretische Beitrag des Werks liegt in der Verbindung relationaler Ungleichheitssoziologie mit einer praxeologischen Perspektive auf Vermögens- und Geschlechterverhältnisse im Familienkontext. Das Buch bietet damit nicht nur dichte empirische Einblicke, sondern liefert auch konzeptionelle Impulse, die sich für die Weiterentwicklung quantitativer Forschungsdesigns – etwa im deutschen Kontext – nutzen lassen. Das Seminar ist als Lektürekurs konzipiert: In jeder Sitzung wird ein Abschnitt des Buches gemeinsam erarbeitet und diskutiert. Ergänzend werden ausgewählte Beiträge aus der aktuellen Forschung zu Geschlecht, Vermögen und familiärer Reproduktion sozialer Ungleichheit herangezogen.

- **Language:** German
- **ECTS:** 6 ECTS Points (not 9 ECTS, as stated in LSF)
- **SWS:** 2 hours per week
- **Dates:** Wednesdays, 10:15-11:45
- **Location:** Konradstr. 6 - 209
- **Course format:** Seminar
- **Online registration period:** until 17.09.2025, 1. Fachsemester: 29.09.2025 - 01.10.2025
- **Course catalog no:** 15234 + 15235

WP 3 Foundation Course: Historiography

DR. NADINE KLOPPER

Hurricane Katrina

In August 2005, Hurricane Katrina hit the city of New Orleans. Katrina's storm surge extensively flooded the city, killing and displacing thousands of its citizens. Through the lens of the hurricane, we will explore the history of racial injustice and 'natural' disasters in New Orleans and think more broadly about the entanglement of race, politics, urban space, and the geography of power in the U.S.

- **Language:** German

- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Mondays, 10:00 - 12:00,
- **Location:** Room S 201, Schellingstr. 3, front building
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 13635

Environmental Practice

WP 5 Academic Practice in Environmental Studies

PROF. DR. CHRISTOF MAUCH

Tuesday Discussion

This course introduces students to a wide variety of fields, both academic and beyond, in which environmental practitioners are active. Each session will provide participants with the opportunity to meet speakers who function as heads of environmental foundations, as members of environmental research institutions, green businesses, environmental non-governmental organizations (ENGOS), or as representatives of the Ministry of Environment. The course is discussion-based and requires students to actively participate in each class. International fellows and staff from the Rachel Carson Center for Environment and Society will also be invited to join the discussion with the students.

Students can obtain 3 ECTS credits for this course.

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Tuesdays, 4:30 pm – 5:45 pm
- **Start Date:** 14.10.2025 **End date:** 03.02.2026
- **Location:** Leopoldstr. 11a, Room 415
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 14861

WP 32 Exploring Local Environmental Practice

DR LENA ENGEL; DR. JONATAN PALMBLAD

Vienna's socio-natural sites – histories of urban transformations

Priority will be given to students who won't already have participated in this year's Slovenia Workshop. There is only a limited number of places available!

Making sense of a place through narratives is a wonderful task for environmental historians. In intensive dialogues with people and places, this course will introduce you to Vienna, former imperial capital surrounded by forests and vineyards and shaped by its struggle with a powerful alpine river, the upper Danube. This course shall empower you to understand such 'nature's metropolises' through environmental history. We will closely read and intensively debate texts that prepare you for a one-week field trip and to complete your tasks on site, both individually and in groups. In Vienna, we will then search and, with the help of experts from a wide range of professions and disciplines, read the traces of several historical transformations of Vienna during the last two millennia, from times of war

and violence, but also from periods of peace, new beginnings and societal progress. This common journey through a city and its history shall broaden our perspective, let us think in new ways about urban life and how it can be transformed today, into feasible futures, aware of its global dependence from other humans, resources and ecologies.

- **Language:** English
 - **ECTS:** 3 ECTS Points
 - **SWS:** 2 hours per week
 - **Start Date:** 09.02.2026 **End date:** 10.02.2026
 - **Location:** Vienna
 - **Course format:** Seminar/Workshop
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 14966
-

Environment and Responsibility

WP 7 Climate Change and Society

PROF. DR. UWE LÜBKEN
Cycling and the Environment

This course explores cycling as a sustainable and efficient mode of transportation. We will examine the evolution of cycling from a bourgeois leisure activity to an everyday means of mobility. We will investigate the decline of cycling amid the rapid rise of automobility, and its “renaissance” in the 1970s. The course also looks at more recent and contemporary bicycle cultures—such as Critical Mass events, bike messengers, and e-bikes—many of which are closely linked to environmentalist movements, practices, and forms of protest. Finally, we will analyze environmental dis-courses surrounding recreational and competitive cycling and evaluate the role of the bicycle in contemporary urban planning.

- **Language:** English
 - **ECTS:** 3 ECTS Points
 - **SWS:** 2 hours per week
 - **Dates:** Mondays, 10:00 am – 12 am
 - **Location:** TBD
 - **Course format:** Seminar
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 14822
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WP 8 Foundation Course: Communication Science

This module consists of TWO parts (Lecture and the seminar below). Students need to complete BOTH to earn the full number of ECTS points.

PROF. DR. MARIO HAIM
Einführung in die Kommunikationswissenschaft I (Lecture)

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:** 2 hours per week
- **Dates:** Monday, 12 pm – 2 pm
- **Start date:** 13.10.2025 **End date:** 02.02.2026
- **Location:** Oettingerstr. 67 (B) - B 001
- **Course format:** Lecture
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 15480

PROF. DR. DIANA RIEGER

Einführung in die Kommunikationswissenschaft 2 (Seminar)

Die Einführungsvorlesung 2 führt ebenfalls in die Grundlagen der Kommunikationswissenschaft ein und stellt ausgewählte Fachgebiete mit ihren zentralen Fragestellungen, Theorien, Forschungsmethoden und empirischen Befunden vor. Im zweiten Teil der Einführungsvorlesung stehen Forschungsansätze der Kommunikationswissenschaft im Fokus, die sich aus einer Mikroperspektive mit Medieninhalten, Medienrezeption und Medienwirkungen beschäftigen. Zudem werden kognitions- und sozialpsychologische Grundlagen vermittelt, die für das Verständnis kommunikationswissenschaftlicher Modelle erforderlich sind. Anhand klassischer Studien und aktueller Beispiele aus der Forschung wird die Entwicklung von Theorien und Methoden des Fachs verdeutlicht.

- **Language:** German
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Thursdays, 12:15 - 13:45
- **Start date:** 16.10.2025 **End date:** 05.02.2026
- **Location:** TBD
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 15479

WP 22 Public Policy

DR. TIZIANO ZGAGA

What Happened with EU Money? Member States in the Final Year of the COVID-19 Recovery and Resilience Facility

The Recovery and Resilience Facility (RRF), adopted in 2021 to tackle the COVID-19 pandemic, has been the largest transfer policy in the history of the European Union (EU)—€723.8 billion of common ‘EU money’ raised on financial markets and distributed to the member states as loans and grants. The RRF ends in August 2026. This seminar examines how successful member states have been in managing the RRF money, and what domestic governance they have set up to do so. Was the governance only a national decision or was there also some influence by the EU? As part of a Europeanization of national fiscal administrations, did a similar governance to manage EU money emerge in different countries? This would have important implications for the development of a European fiscal union.

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Thursdays, 10:15 - 11:45
- **Location:** Oettingenstr. 67 - 161
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 15039

WP 33 Environments, Planning and Policy

PROF. DR. UWE LÜBKEN

Dams and the Environment: Origins, Promises, Impacts, Future

This seminar traces the long-lasting and severe impact of large dams around the globe. Storing water behind earthen and concrete walls has served to produce energy, to facilitate navigation, to protect against flooding and to “conserve” water for agricultural and urban demands. These gigantic infrastructural devices have fascinated not only engineers but also intellectuals, filmmakers, and millions of visitors. Dams were at the focus of geopolitical and military conflicts. For many developing states, they symbolized beacons of modernity.

In the process of dam construction, however, entire villages have been flooded (and sometimes reappeared) and its inhabitants, quite often indigenous populations, displaced. Also, the creation of dams, and in particular high dams, often came at the cost of devastating environmental consequences. More recently, environmentalists have argued for the removal of dams, in some cases successfully.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Mondays, 16:15 - 17:45
- **Location:** Leopoldstr. 11 A - B, 415
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 14825

PROF. DR. UWE LÜBKEN

Public Transportation in North American History

This course investigates the origins, the development, the key features and the impact of public transportation systems in the United States from the early nineteenth century to the present. We will examine key modes of public transportation such as horse-drawn and electric streetcars, subways, buses, and commuter rail, and explore how they shaped urban growth, suburbanization, racial segregation and gentrification. The course will analyse the rise of private car use and the corresponding decline of public transit in the postwar period as well as the recent push for sustainable and equitable mobility.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Wednesdays, 14:15 - 15:45
- **Location:** Theresienstr. 41 - C 111
- **Course format:** Seminar
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 13641

Sustainability and Environmental Sciences

WP 9 Geographical Sustainability

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

Geography and Sustainability (Lecture)

To register for this course, please email envstudies@rcc.lmu.de before September 30, 2025.

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, 14:15 - 15:45
 - **Location:** Richard-Wagner-Str. 10 - D 114
 - **Course format:** Lecture
 - **Online registration period:** **see above**
 - **Course catalog no:** 14829
-

WP 10 Marine Biology

PROF. DR. GERT WÖRHEIDE

Marine Biology (Lecture)

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, we recommend that you attend an introductory lecture before choosing this lecture.

- **Language:** English
 - **ECTS:** 3 ECTS Points
 - **SWS:** 2 hours per week
 - **Dates:** Tuesdays, 14:15 - 15:45
 - **Location:** Richard-Wagner-Str. 10 - D 016
 - **Course format:** Lecture
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 20458
-

WP 11 Foundations Course: Organismic Biology

PROF. DR. FRANK WOLFGANG, PROF. DR. PETER GEIGENBERGER, PROF. DR. CAROLIN HAUG, PROF. DR. JOACHIM HAUG, PROF. DR. GUDRUN KADEREIT, PROF. DR. ANDREAS KLINGL, PROF. DR. DARIO LEISTER, PROF. DR. MICHAEL MATISCHINER, PROF. DR. SILKE WERTH

Vielfalt des Lebens – Tree of life (Lecture)

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, 10:30am – 12 pm and Fridays, 12 pm – 1:30 pm
- **Location:** Großhaderner Str. 2 (B) - Gr. Biologie B00.019
- **Course format:** Lecture
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 19086

WP 12 Foundations Course: Ecology, Behavioral and Evolutionary Biology

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

Grundlagen der Ökologie, Verhaltensbiologie und Evolutionsbiologie (Lecture)

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).

Course registration takes place via [moodle](#), not via LSF. Please enter the registration key “EvoEco23” to register, and notify envstudies@rcc.lmu.de of your enrollment.

- **Language:** German
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Friday, 08:30 am – 10 am
- **Start date:** 17.10.2025 **End date:** 06.02.2026
- **Location:** Großhaderner Str. 2 (B) - Gr. Biologie B00.019
- **Course format:** Lecture
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 19092

WP 13 Environmental Geobiology

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

Global Cycles: Lecture (Lecture)

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 an 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 may also be suggested by the students.

This module consists of TWO parts (lecture and tutorial). Students need to complete BOTH parts to earn the full number of ECTS points.

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Monday, 14:15 - 15:45
- **Start date:** 13.10.2025 **End date:** 02.02.2026
- **Location:** Richard-Wagner-Str. 10 - D 016
- **Course format:** Lecture
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 20451

PROF. DR. WILLIAM ORSI, DR. GONZALO GOMEZ-SAEZ
Global Cycles: Tutorial (Tutorial)

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Monday, 16:15 - 17:45
- **Start date:** 13.10.2025 **End date:** 02.02.2026
- **Location:** Richard-Wagner-Str. 10 - D 016
- **Course format:** Tutorial
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** 20452

WP 14 Global Change and the Earth System

PROF. DR. JULIA PONGRATZ
Klimawandel und das Erdsystem (Lecture)

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:** German
 - **ECTS:** 3 ECTS Points
 - **SWS:** 2 hours per week
 - **Dates:** Tuesday, 10:15 - 11:45
 - **Start date:** 14.10.2025 **End date:** 03.02.2026
 - **Location:** Richard-Wagner-Str. 10 - D 116
 - **Course format:** Lecture
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 20155
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WP 35 Theoretical and Applied Hydrology

UNIV. PROF. DR. RALF-PETER LUDWIG

Theoretische und angewandte Hydrologie (Lecture)

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 abundancy 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:** Thursday, 10:15-11:45
 - **Start date:** 16.10.2025 **End date:** 05.02.2026
 - **Location:** Luisenstr. 37 (C) – C 024
 - **Course format:** Lecture
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 20158
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WP 36 Natural Hazards

PROF. DR. LUKAS LEHNERT

Naturgefahren - Ursachen, Folgen, Handlungsoptionen (Lecture)

**RCC students may only register for the lecture, the seminar is not open to them.
To register for this course, please email envstudies@rcc.lmu.de before September 30, 2025.**

Vorlesung mit folgenden Inhalten:

- Hazard-, Risiko- und Katastrophenforschung
- Gefahren und Risikoanalyse
- Frequenz und Magnitude natürlicher Prozesse
- Entstehung von Naturgefahren durch:
 - meteorologische/hydrologische/glaziologische Prozesse (z.B. Tropische Wirbelstürme, Hitze-/Kältewellen, Überschwemmung, Dürre, Sturm-/ Sturzfluten, Permafrostschmelze)
 - geologische/geomorphologische Prozesse (z.B. Erdbeben, Vulkaneruption, Bodenerosion)
 - biologische Prozesse (z.B. Epidemien & Waldbrände)
- Ursachen, Folgen und Handlungsmöglichkeiten (Fallbeispiele)
- Naturkatastrophenmanagement: Vorhersage, Prävention und Bewältigung von Naturkatastrophen
- Einflüsse von Naturgefahren auf gesellschaftliche Prozesse
- Rolle, Aufgaben und Möglichkeiten der Geographie in der Katastrophenforschung

Lernziele: Die Absolventen dieses Moduls verfügen über vertiefte wissenschaftliche Kenntnisse zu Naturgefahren. Die anhand von Fallbeispielen untermauerten Kenntnisse erstrecken sich über ein weites Spektrum von methodischen wie inhaltlichen Fragestellungen und schließen die menschliche Beeinflussung der Gefahren sowie ihre Quantifizierung ein.

- **Language:** German
 - **ECTS:** 3 ECTS Points
 - **SWS:** 2 hours per week
 - **Dates:** Mondays, 12:15 - 13:45
 - **Location:** Richard-Wagner-Str. 10 - D 105
 - **Course format:** Lecture
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 20142
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WP 37 Evolutionary Ecology

PROF. DR. NIELS DINGEMANSE, PROF. DR. HERWIG STIBOR
Evolutionary Ecology

Content: 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.

MOODLE ENROLMENT KEY: EvoEco_2122

- **Language:** English
 - **ECTS:** 6 ECTS Points
 - **SWS:** 4 hours per week
 - **Dates:** Mondays 8:30 am - 10 am, Tuesdays 08:30 am - 10 am
 - **Start date:** 14.10.2025 **End date:** 02.02.2026
 - **Location:** Großhaderner Str. 2 (B) - Kl. Biologie 2
 - **Course format:** Lecture
 - **Online registration period:** 22.09.2025 - 06.10.2025
 - **Course catalog no:** 19453
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Final Project Module: Thesis / Creative Project

WP 38/39 Final Project

DR. SUSANNE B. UNGER

Final Project Colloquium (Colloquium)

The Final Project Colloquium addresses students in their final semester who want to pursue their final project. At this event, students present their project ideas to each other. The colloquium offers opportunities to discuss any open questions regarding methodology, research focus, etc. It also lets participants gain insight into what kind of topics fellow students are working on for their final projects, and to reflect on the interdisciplinary character of the program.

- **Language:** English
- **ECTS:** 1 ECTS Point
- **SWS:** 2 hours per week
- **Date:** TBA
- **Location:** Leopoldstr. 11a, Room 244
- **Course format:** Workshop
- **Online registration period:** 22.09.2025 - 06.10.2025
- **Course catalog no:** TBA