

Environmental Studies Certificate Program (PStO 2013)



Course Catalog Winter Term 2023/24

Please register for courses as soon as possible instead of waiting until October 10th.

Important note for exams: ALWAYS REGISTER FOR EXAMS (Prüfungsanmeldung) in January 2024 VIA LSF (even if lecturers have additional lists or tell you otherwise).

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P 1 Environment and Society: Mandatory Module (Pflichtveranstaltung)

Please register for both Lunchtime Colloquium and Reading Course via LSF. Details will be discussed with registered students as soon as possible.

DR. KATHERINE ARNOLD

Lunchtime Colloquium: The Environmental Humanities - International Perspectives

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

- **Language:** English
- **ECTS:** 2 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Thursday, 12:30 pm - 2 pm
- **Start date:** 19.10.2023 **End date:** 08.02.2024
- **Location:** Katholische Hochschulgemeinde (KHG) Leopoldstr. 11, 1. OG.
- **Work format:** presentations
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 13138

DR. SUSANNE UNGER

Reading Course: International Perspectives

The Reading Course makes up 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 welcome to actively shape both structure and content. Lively discussions are the core of the course, based on weekly presentations on different topics provided by the course participants.

- **Language:** English
- **ECTS:** 1 ECTS Point
- **SWS:** 2 hours per week
- **Dates:** Thursday, 2 pm - 4 pm
- **Start date:** 19.10.2023 **End date:** 18.01.2024
- **Location:** Katholische Hochschulgemeinde (KHG) Leopoldstr. 11, 1. OG.
- **Work format:** Reading course
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 14807

WP 1 – WP 13: Elective Modules (Wahlpflichtveranstaltungen)

Content Area 1: Environmental History and Society

WP 1 American History, Culture and Society

PROF. DR. UWE LÜBKEN

Histories of Travel and Tourism in the United States

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:** 2h per week
- **Dates:** Tuesdays, 12:00 pm – 2:00 pm
- **Start Date:** 17.10.2023 **End date:** 06.02.2024
- **Location:** Schellingstr. 3/Frontbuilding, S 106
- **Work format:** Übung
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 13690

DR. KATHERINE ARNOLD

Inventing America's Wilderness

'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:** 2h per week

- **Dates:** Mondays, 10:00 am – 12:00 pm
- **Start Date:** 16.10.2023 **End date:** 05.02.2024
- **Location:** Amalienstr. 73A - 103
- **Work format:** Lecture
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 13705

DR. MAREN ROTH

Life at the homefront - The United States during the First and Second World War

The First and the Second World War were major turning points in American as well as in European history. Instead of looking at the international political and military aspects of these two wars, though, in this seminar we will focus on the implications they had on life in the United States. By looking more closely at the homefront, e.g. the propaganda activities of the Wilson and Roosevelt administrations, the wartime restructuring of the American economy, the experiences of African Americans and “enemy aliens” (Germans, Italians and Japanese), the changing role of American women and the effects of war on daily life in general, we will try to find out to what extent American society was shaped and maybe even changed during both these wartime periods.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 2h per week
- **Dates:** Wednesdays, 4:00 pm – 6:00 pm
- **Start Date:** 18.10.2023 **End date:** 07.02.2024
- **Location:** Schellingstr. 3/Frontbuilding, S 106
- **Work format:** Seminar
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 13709

WP 2 Anthropology

DR. WOLFGANG KAPFHAMMER

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

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.

- **Language:** German
- **ECTS:** 6 ECTS Points
- **SWS:** 2h per week
- **Dates:** Tuesdays, 4 pm - 6 pm
- **Start Date:** 17.10.2023 **End date:** 06.02.2024

- **Location:** Oettingenstr. 67 - 131
- **Work format:** Seminar
- **Registration online:** 25.09.2023 **until 09.10.2023**
- **Belegnummer:** 12376

WP 4 Sociology

PROF. DR. UWE LÜBKEN

Cycling and the Environment

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.

- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Tuesdays, 8:30 am - 10 am
- **Start date:** 17.10.2023 **End date:** 06.02.2024
- **Location:** Leopoldstr. 13, H1 – 1202
- **Work format:** Seminar
- **Registration online:** 25.09.2023 **until 09.10.2023**
- **Belegnummer:** 14804

The following two courses must be visited together as a bundle.

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:** Mondays, 2:00 pm – 4:00 pm and
Monday, 05.02.2024: (**single course**, location: Schellingstr. 3 (S) – S 005), 2:00 pm – 4:00 pm and
Monday, 18.03.2024: (**single course**, location: Oettingenstr. 67 (B) – B 001), 2:00 pm – 4:00 pm
- **Start date:** 18.10.2022 **End date:** 08.02.2023
- **Location:** Geschw.-Scholl-Pl. 1 (M) – M 218

- **Work format:** Lecture
- **Registration online:** 04.10.2023 **until 08.10.2023**
- **Belegnummer:** 15001

DR. CORINNA LAUERER, PD DR. CLAUDIA RIESMEYER-LORENZ
Einführung in die Kommunikationswissenschaft I (Seminar)

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. Studierende im BA-Hauptfach-Studiengang Kommunikationswissenschaft müssen im Laufe ihrer ersten beiden Fachsemester 30 Punkte für den Besuch von Veranstaltungen aus dieser Reihe sammeln. Dabei erhalten sie für jede besuchte Veranstaltung einen Punkt. 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.

- **Language:** German
- **ECTS:** 3 ECTS Points
- **SWS:** 2h per week
- **Dates:** Tuesdays, 4:00 pm – 6:00 pm and
Wednesdays, 12:00 pm - 2:00 pm
Thursday, 19.10.2023 (**single course**, location: Geschw.-Scholl-Pl. 1 (B) – B 201) 15:00 - 20:00
- **Start date:** 17.10.2023 **End date:** 06.02.2024
- **Location:** Oettingenstr. 67 (B) - B 001
- **Work format:** Seminar
- **Registration online:** 04.10.2023 **until 08.10.2023**
- **Belegnummer:** 15001

Content Area 2: Environmental Practice

WP 5 Internship or Practice Seminar

DR. SUSANNE UNGER, PROF. DR. 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.

- **Language:** English
- **ECTS:** 3 ECTS Points

- **SWS:** 2h per week
- **Dates:** Tuesdays, 4:15 pm - 5:15 pm
- **Start Date:** 17.10.2023 **End date:** 06.02.2024
- **Location:** 4th floor conference room RCC, Leopoldstrasse 11a
- **Work format:** Seminar
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 14808

PROF. DR. MAUCH

La Serenissima – Environmental Explorations in Venice (Block seminar)

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** 03.03.2024 – 08.03.2024, 9:00 am – 5:00 pm
- **Start date:** 03.03.2024 **End date:** 08.03.2024
- **Location:** Venice, Italy
- **Work format:** Block seminar
- **Registration online:** 25.09.2023 **until** 09.10.2022
- **Belegnummer:** 14832

Content Area 3: Human Ecology and Natural Sciences

Please note: You can only gain 3 ECTS in most seminars of this content area and you need 6 ECTS to complete it. Therefore, we would recommend visiting a second 3-ECTS seminar during this or the upcoming winter semester in Content Area 4 in order to receive 6 ECTS in total.

WP 9 Geography A

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

Geography and Sustainability (Lecture)

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.

Important for ESP-students: Please register for this course, not via LSF, but with: envstudies@rcc.lmu.de

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Tuesdays, 2 pm – 4 pm
- **Start date:** 17.10.2023 **End date:** 26.12.2023

- **Location:** Richard-Wagner-Str. 10 - D 114
- **Work format:** Lecture
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 20179

The following two courses must be visited together as a bundle.

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.

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

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Mondays, 2:00 pm – 4:00 pm
- **Start date:** 16.10.2023 **End date:** 05.02.2024
- **Location:** Richard-Wagner-Str. 10 - D 016
- **Work format:** Lecture
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 20401

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

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Mondays, 4:00 pm – 6:00 pm
- **Start date:** 16.10.2023 **End date:** 05.02.2024
- **Location:** Richard-Wagner-Str. 10 - D 016
- **Work format:** Lecture
- **Registration online:** 25.09.2023 **until** 09.10.2023
- **Belegnummer:** 20402

WP 10 / 11 Biosciences and Anthropology A / B

PROFS DR. DINGEMANSE, GOMPEL, HAUG, STIBOR, & 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).

Please note: Register via [moodle](#), not LSF. Please enter the registration key “EvoÖko” to enter.

- **Language:** German
- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Friday, 08:30 am – 10 am
- **Start date:** 21.10.2022 **End date:** 10.02.2023
- **Location:** Großhad. Str. 2 (B) - Gr. Biologie B00.019
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 19169

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 am – 12 pm
- **Start date:** 18.10.2022 **End date:** 07.02.2023
- **Location:** Richard-Wagner-Str. 10 - D 116
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 20160

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 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:** Tuesday, 12 pm - 2 pm
- **Start date:** 18.10.2022 **End date:** 07.02.2023
- **Location:** Luisenstr. 37 (C) - C 206
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 20163

PROF. DR. GERT WÖRTHEIDE

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 Protozoa 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:** Tuesday, 2 pm – 4 pm
- **Start date:** 18.10.2022 **End date:** 07.02.2023
- **Location:** Richard-Wagner-Str. 10 - D 016
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 20403

WP 12 Geology

PROF. DR. SONJA DÜMPELMANN

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

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.

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|-------------------------------|--------------------|-----------------------------|
| ➤ Language: | English | |
| ➤ ECTS: | 6 ECTS Points | |
| ➤ SWS: | 4 hours per week | |
| ➤ Dates: | Tuesday 10am – 2pm | |
| ➤ Start date: | 17.10.2022 | End date: 11.02.2023 |
| ➤ Location: | TUM, TBD | |
| ➤ Work format: | Foundation Course | |
| ➤ Registration online: | 26.09.2022 | until 10.10.2022 |
| ➤ Belegnummer: | 13710 | |

Final Project Module: Publication / Exhibition

WP 14/15 Final Project

DR. SUSANNE 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 the opportunity to discuss any open questions regarding methodology, research focus, etc. It also serves to 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
- **Dates:** Friday, 11.11.22, 2 pm – 4 pm
- **Start date:** 11.11.2022 **End date:** 11.11.2022
- **Location:** TBD
- **Work format:** Workshop
- **Registration online:** 26.09.2022 **until** 06.02.2023
- **Belegnummer:** 20154