

Environmental Studies Certificate Program



Course Catalogue Winter Term 2022/23

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 2023 VIA LSF (even if lecturers have additional lists or tell you otherwise).

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. ARIELLE HELMICK

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:** 28.04.2022 **End date:** 28.07.2022
- **Location:** Katholische Hochschulgemeinde (KHG) Leopoldstr. 11, 1. OG.
- **Work format:** presentations
- **Registration online:** 04.04.2022 **until** 19.04.2022
- **Belegnummer:** 13166

DR. GESA LÜDECKE

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:** 28.04.2022 **End date:** 28.07.2022
- **Location:** Katholische Hochschulgemeinde (KHG) Leopoldstr. 11, 1. OG.
- **Work format:** reading course
- **Registration online:** 04.04.2022 **until** 19.04.2022
- **Belegnummer:** 14790

WP 1 – WP 13: Elective Modules (Wahlpflichtveranstaltungen)

Content area 1: Environmental History and Society

WP 1 American History, Culture and Society

DR. ANDREAS ETGES

America's National Park System

In 1916 the National Park Service (NPS) was founded "to conserve the scenery and the natural and historic objects and the wild life" of the United States. While the original focus was on protecting natural treasures – often by driving out Native Americans – the NPS mandate grew over time by also incorporating Civil War battlefields, historic sites and buildings. The seminar will take a look at the creation of the NPS and selected parks and sites as well as the many controversies to change the celebratory national narrative in order to include more critical perspectives (e.g. slavery in the explanation of the Civil War) and places, like the Sand Creek Massacre National Historic Site in Colorado. An attempt will be made to bring in current and former park rangers via Zoom

- **Language:** English
- **ECTS:** 3 ECTS Points
- **SWS:** 2h per week
- **Dates:** Tuesdays, 4:15 pm - 5:45 pm
- **Start Date:** 18.10.2022 **End date:** 07.02.2023
- **Location:** Schellingstr. 3 (R) - R 052
- **Work format:** Seminar
- **Registration online:** 04.04.2022 **until** 10.10.2022
- **Belegnummer:** 14787

PROF. DR. GREG MITMAN, EMMA ROTH

Hotspots, Spillovers, and Resource Extraction: Critical Approaches from the Environmental Humanities (Seminar)

Mass extinctions. Firestorms. Pandemics. How do we make sense of a planet on which warming temperatures, rising seas, viral spillovers, toxic exposures, and species loss, propelled by capitalism's demand for cheap nature, differentially impact people and other beings? In this seminar, we draw upon work in the environmental humanities, and fields such as anthropology, Black studies, history, Indigenous studies, literary studies, philosophy, political ecology, and science & technology studies, to explore how planetary-scale environmental crises are reshaping past and present relations among people and other beings in different parts of the globe. We also seek to interrogate the formation of scientific and popular understandings, representations, and affects in the making of, and solutions to, such crises. We will focus on three key areas of intervention —resource extraction, conservation, and health—to recontextualize ecological crises within histories of colonialism, capitalism, and racism, and to attend to issues of socioeconomic inequality and the divergent ethics and politics that animate environmental contestations.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 4 hours per week
- **Dates:** Thursday, 2:30 pm - 4 pm
- **Start date:** 20.10.2022 **End date:** 09.02.2023
- **Location:** RCC, Leopoldstr. 11A, 4115, 4th floor conference room
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 14831

WP 2 Anthropology

DR. WOLFGANG KAPFHAMMER

Das eigentlich ganz gute Leben. Ethnologische Perspektiven auf die Degrowth-Debatte

Es ist beileibe nicht so, dass dem lauter werdenden Ruf nach Verzicht eine gewisse Vergeblichkeit anhaftet, weil den so Angesprochenen die Alltagserfahrung des Mangels fehle, denkt man an die Auswirkung einer Austeritätspolitik im neoliberalen Staat oder die Bitternis von Armut infolge einer „imperialen Lebensweise“ (Ulrich Brand) anderer. Die Steigerungslogik des globalen Wirtschaftssystems sitzt zu tief in unseren „mental Infrastrukturen“ (Harald Welzer) verankert, als dass die Kassandrarufe nach De-Growth von Klima- und Umweltschützer*innen allzu großflächig durchdringen würden. Und dennoch finden alternative Entwürfe, die gemeinsame Zukunft zu gestalten, immer mehr Zulauf und Unterstützung, darunter Denk- und Praxisanstöße, welche oftmals von Konzepten aus dem Globalen Süden inspiriert scheinen. Wie steht es also um die „Indigenialität“, von der Biologe Andreas Weber neuerdings (2018) als probatem Transformationsdesign schwärmt?

Literaturtip: James Sulzman, *Affluence without Abundance. The disappearing world of the Bushmen*, Bloomsbury, New York 2017

Please note the course starts in the second week of the semester.

- **Language:** German
- **ECTS:** 6 ECTS Points
- **SWS:** 2h per week
- **Dates:** Thursdays, 4 pm - 6 pm
- **Start Date:** 24.10.2022 **End date:** 06.02.2023
- **Location:** Oettingenstr. 67 - 027
- **Work format:** Seminar
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 12414

WP 4 Sociology

DR. KATIE RITSON

Petrocultures in Europe & Beyond (Seminar)

In Petrocultures in Europe & Beyond we will explore the cultural implications of our dependency on oil. Modern culture is petroculture: oil is ubiquitous in the modern world but the infrastructures and technologies (drilling platforms, pipelines, tankers) that bring it to us are largely removed from our everyday experience. By tracing the ways in which oil has seeped into literary texts, films, TV, visual art and museums across Europe and beyond we can see the extent to which modern life is shaped by energy use, and how shared imaginations of past, present and future energy regimes shape our attitudes to the current energy crisis.

- **ECTS:** 3 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Tuesdays, 12 pm - 2 pm
- **Start date:** 18.10.2022 **End date:** 08.02.2023
- **Location:** RCC, Leopoldstr. 11A, 2nd floor conference room, R244
- **Work format:** Seminar
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 14830

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

DR. CORINNA LAUERER, PD DR. RIESMEYER-LORENZ

Kommunikationsberufe I (Lecture)

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:** 2 hours per week
- **Dates:** Tuesdays, 4 pm - 6 pm, and Wednesdays, 12 pm - 2 pm
- **Start date:** 18.10.2022 **End date:** 08.02.2023
- **Location:** TBD
- **Work format:** Seminar
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 15430

DR. CORINNA LAUERER, PD DR. RIESMEYER-LORENZ
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:** 2h per week
- **Dates:** Monday, 10 am – 12 pm
- **Start date:** 17.10.2022 **End date:** 06.02.2023
- **Location:** Oettingenstr. 67 (B) - B 001
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2023
- **Belegnummer:** 15001

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

PROF. DR. BERNHARD GILL
Einführung in die Umweltsoziologie (Lecture)

Wie entwickeln sich Gesellschaften in Abhängigkeit von ihrer physischen Umwelt? Wie ist es möglich, dass Industriegesellschaften aktuell mehr physische Umwelt verbrauchen, als – langfristig und global betrachtet – vorhanden ist? Wie lässt sich die Überlastung der globalen Umwelt durch verbesserte Technologien und vernünftigeren Lebensweisen ändern? Wie lässt es sich verstehen, dass Wahrnehmung und Interpretation des Umweltzustands nicht einfach "der Wissenschaft" folgen, sondern gesellschaftlich umstritten sind? Die Vorlesung wird diesen Fragen nachgehen. Aus aktuellem Anlass gibt es außerdem einen Schwerpunkt zu infektionsbiologischen Problemen und Problemwahrnehmungen. Die Vorlesung ist aufgezeichnet und wird über die [Website](#) der Veranstaltung abgerufen.

- **Language:** German
- **ECTS:** 4 ECTS Points
- **SWS:** 2h per week
- **Start Date:** 17.10.2022 **End date:** 06.02.2023
- **Location:** Online (Recorded Lectures)
- **Work format:** Lecture
- **Registration online:** 13.09.2022 **until** 20.09.2022
- **Belegnummer:** 15255

PROF. DR. BERNHARD GILL
Übung zur Vorlesung Einführung in die Umweltsoziologie (Tutorial)

In der Tafelübung - am 8. Nov / 13. Dez / 24. Jan - werden zuvor verschickte Single- Choice-Fragen diskutiert. Die Tafelübung dient insoweit der Klausurvorbereitung. Die Tafelübung findet in Präsenz statt und wird per Video aufgezeichnet (und ist dann ebenfalls über die [Website](#) abrufbar).

- **Language:** German
- **ECTS:** 2 ECTS Points
- **SWS:** 2h per week
- **Dates:** Tuesdays, 10 am - 12 pm, 09.11.2022, 14.12.2022, 25.01.2023
- **Start Date:** 09.11.2022 **End date:** 25.01.2023
- **Location:** Geschw.-Scholl-Pl. 1 (M) - M 105
- **Work format:** Tutorial
- **Registration online:** 04.04.2022 **until** 10.10.2022
- **Belegnummer:** 15256

Content area 2: Environmental Practice

WP 5 Internship or Practice Seminar

DR. GESA LÜDECKE

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:** 17.10.2022 **End date:** 06.02.2023
- **Location:** 4th floor conference room RCC, Leopoldstrasse 11a
- **Work format:** Seminar
- **Registration online:** 04.04.2022 **until** 10.10.2022
- **Belegnummer:** 14791

JENS BENÖHR, ELISA BALMACEDA, KARA VIRIK

Visionary Ecologies (Block seminar)

“We cannot build, what we cannot imagine. So, we absolutely need [visionary] spaces. Once the imagination is unshackled, liberation is limitless.” - Walidah Imarisha

This seminar aims to dive into visionary ecologies that we can inhabit in a critically damaged planet. Here, we bring together thinkers and makers from the fields of the arts, the technologies, and the social and natural sciences, to generate an experimental, creative and speculative learning platform. This seminar opens up a space of encounter and exchange between different visions, epistemologies and worldviews on

the environment and liberation. Queer, sentient, and decolonial ecologies are some of the multiple lenses we will investigate together. How can we think and envision multiple natures and futures to come? We will collectively explore these issues through weekly virtual gatherings with guests, reading sessions and experimental workshops.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 2 hours per week
- **Dates:** Wednesdays, 4pm – 6pm
- **Start date:** 19.10.2022 **End date:** 08.02.2023
- **Location:** Online
- **Work format:** Block seminar
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **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. MATTHIAS GARSCHAGEN
Geography and Sustainability (Lecture)

Plants as sessile organisms respond to adverse environmental conditions by a diversity of physiological acclimations. This lecture covers the basics in the interaction of plants with the environment and the specific responses to different kinds of stimuli and stresses. Acclimation mechanisms will be reviewed in depth to be able to teach biochemical and molecular mechanisms in more detail and to reinforce recurring mechanisms. The students will be able to integrate knowledge and deal with the complexity of plant acclimation and to apply these capabilities to more specialized courses. Interaction with the environment becomes an even more important topic in an era of climate changes. Understanding these impacts is one of the goals of this lecture.

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:** 18.10.2022 **End date:** 07.02.2023
- **Location:** Richard-Wagner-Str. 10 - D 118
- **Work format:** Lecture
- **Registration online:** 26.09.2022 **until** 10.10.2022
- **Belegnummer:** 20178

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. MARIANELA FADER

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.

- **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. CHRISTOF MAUCH

Environments of Sufficiency: Transatlantic Perspectives on Society, Culture, Ecology and Architecture (Lecture)

This multidisciplinary seminar asks how we can live a good life without rapidly destroying the planet. In a dialogue with architects and civil engineer from the Technical University of Munich, humanities scholars from the Amerika-Institut and the Rachel Carson Center will discuss how green technologies, innovative infrastructures, social practices and lifestyles can contribute to new economic patterns and philosophies that will help to slow down the global ecological crisis. Overall, this seminar asks how the US and other nations in the western world have seen nature and progress in the past and what it will take to shift ideologies of extraction and domination into new directions. Which ideas about 'green living' exist in Europe and North America? Which of them have worked? Students are expected to engage in dialogue with peers who come from very different backgrounds (architecture, planning, ecology, political science, anthropology etc.). They are asked to write their seminar paper during the semester, to precirculate it, and to discuss it during a block session on February 10-11, 2023 at the Vollmar-Akademie Kochel. The seminar starts on October 24.

- **Language:** English
- **ECTS:** 6 ECTS Points
- **SWS:** 4 hours per week
- **Dates:** Mondays, 2:15 pm – 4:45 pm, Fri. 10.02.23 10am-4pm, Sat. 11.02.23 10am – 4pm
- **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

WP 14/15 Final Project

DR. GESA LÜDECKE

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