Universität Basel

Universität Basel

Masterstudium: Sustainable Development

The aim of the MSD study program:
Our students gain advanced knowledge about scientific aspects of Sustainable Development in consideration of the ecological responsibility, the societal solidarity and the economic performance. They are taught to become competent and interdisciplinary working decision-makers in science, politics, economics, and society. Our graduates are able to consider, manage and implement complex sustainability issues.

Academic degree:
Master of Science in Sustainable Development

Structure:
The MSD study program contains 120 credit points, which are acquired over four semesters in the case of a full time study. For a part time study, the duration will extend accordingly. The MSD offers three focus areas: in natural sciences, in social sciences, and in economics; each containing six determined modules; and a master's thesis.
For detailed information regarding modules etc. we recommend to have a closer look at the study regulations (in German); the guidelines, the medium-term syllabus and the optimal study progression plan (all available in English). These documents and a graphic representation of the three focus areas can be downloaded from our website: https://www.msd.unibas.ch.

Head of the MSD:
The study program is jointly run by the Faculty of Sciences, the Faculty of Humanities and Social Sciences and the Faculty of Economics.
From August 2022 to July 2024, the teaching committee (TC) is chaired by Prof. Dr. Frank Krysiak, head of Environmental Economics, Faculty of Economics.

Head of the coordination office MSD is Camelia Chebbi, for contact details see below (section academic advice = Studienfachberatung).

Further information:
The guidelines and the study regulations inform about admission criteria, the registration process and the curriculum.
The detailed course directory (dcd) informs regarding teaching program of the current semester. Further information are provided by the medium-term syllabus (mittelfristiger Lehrplan). For the preparation of the timetable all these documents have to be considered.
All documents are available as downloads: https://www.msd.unibas.ch/en/services/downloads/msd-2017/

Studienfachberatung:
For academic advice and information & study consultation:
Camelia Chebbi, MA/MAS ETHZ/MAS NPPM FHNW,
head coordination office MSD

For detailed information regarding availability of office and staff see: https://msd.unibas.ch/en/organization/coordination-office/contact/
Individual study consultation by appointment.
coordination-msd@unibas.ch; +41 61 207 04 20.

Modul: Komplementärer Basisbereich Naturwissenschaften

50260-01 Vorlesung: Ecology and Evolution 1 KP

Dozierende	**Jan Beck**
Zeit und Ort	Mi 16:15-18:00 Vesalianum, Seminarraum (O2.02) Irregular timetable, details see below.
Datum	28.02.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Komplementärer Basisbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	You will understand the scientific basis of ecological and evolutionary theory, which is a precondition to understand many applied issues in conservation, ecosystem management, agricultural sciences and other topics of human-environment relationships.
Inhalt	The course will provide you with sound background knowledge in ecology and evolutionary biology. While I will primarily treat basic science topics and principles in these fields, the topics were also chosen for their relevance for applied sciences such as conservation, agro-sciences and ecosystem management. We will treat the basics of evolutionary theory (e.g., common descent, natural selection, reproductive isolation and speciation), the genetic basis of evolution (e.g., mutation and recombination, selfish genes), and examples of human impact on evolution. The ecology part introduces basic concepts such as population growth, interspecific interactions, and the patterns of primary productivity and their consequences (among others). We will also look in detail at the geographic ranges of species and resulting

	emergent phenomena, such as biodiversity. A global perspective on the human impact on biodiversity, and its feedback on human economy, will put this into applied perspective.
Literatur	Recommended textbooks: - Biogeography, 4th ed., by Mark V. Lomolino, Brett R. Riddle, and Robert J. Whittaker; Oxford University Press. - Ecology: From Individuals to Ecosystems, 4th ed., by Michael Begon, Colin R. Townsend, John L. Harper; Wiley-Blackwell - Evolution, 3rd ed. by Mark Ridley; Wiley-Blackwell. - The selfish gene by Richard Dawkins, Oxford University Press. - Collapse: how societies choose to fail or survive by Jared Diamond; Penguin Books. All books are available at Basel university library. Additional journal article links or PDFs will be made available during the course (via ADAM).
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Regular attendance. Required readings and active participation. Written examination: 08.05.24: during usual teaching time slot; room: Kollegienhaus, lecture hall 120 Repeat examination: 22.05.24, Seminar room 02.02, Vesalianum
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Participation only possible for MSD students (incl. preparation semester).
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	Mandatory for students with focus area in social sciences and in economics. Unless you have a background in natural sciences and have already attended a similar course; you would have to substitute it by agreement with Prof. Dr. Patraicia Holm (learning agreement). Irregular timetable: 28.02.; 06.03.; 20.03.; 27.03.; 03.04.; 24.04. and 08.05.24 (examination) 22.05.24 (repeat examination). For students with focus area in natural sciences the lecture is optional (and can be attended if you have not attended a similar course already) credit points are to be transferred to the "Focal Areas in Sustainability Research" module (learning agreement). This lecture is offered by MSD. Dr. J. Beck holds a teaching assignment. For more information on Jan Beck see: https://orcid.org/0000-0003-1170-4751

36792-01 Vorlesung: Terrestrial Ecosystem Ecology and Sustainable Land Use — 2 KP

Dozierende	**Ansgar Kahmen**
Zeit und Ort	Do 14:15-16:00 Botanik, Hörsaal 00.003
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Integrative Biologie
Module	Lehrveranstaltungen Masterstudium Pflanzenwissenschaften (Masterstudium: Pflanzenwissenschaften) Lehrveranstaltungen Masterstudium Ökologie (Masterstudium: Ökologie) Modul: Biologie 5 (Bachelorstudium: Biologie (Studienbeginn vor 01.08.2022)) Modul: Komplementärer Basisbereich Naturwissenschaften (Masterstudium: Sustainable Development) Modul: Organismische Biologie (Bachelorstudium: Biologie)
Lernziele	You learn about: - the concept of ecosystem goods and services and the multifunctionality of land use - key processes determining energy, carbon nitrogen and water cycling in ecosystems - the impacts of global environmental changes on biogeochemical cycles - the role of biodiversity for ecosystem functioning - strategies for the sustainable use of ecosystem goods and services

Inhalt	Terrestrial ecosystems deliver ecosystem goods (food, timber, fuel) and services (carbon sequestration, nutrient cycling, water purification) that we as people depend on. The delivery of these ecosystem goods and services is tightly coupled to biogeochemical cycles that determine the fluxes of carbon, water or nutrients in ecosystems. In «Terrestrial ecosystem ecology and sustainable land use» we will present the key mechanisms that drive biogeochemical cycles in terrestrial ecosystems from leaf to globe. We will explain the impact of global environmental change (climate change, nitrogen deposition, loss of biodiversity, land use changes) on biogeochemical cycles and ecosystem services and will discuss sustainable management strategies that can mitigate these impacts. In essence, this class will teach the ecological principles that underlie the sustainable use of natural and agricultural ecosystems.
Literatur	- Canadell JG, et al. (2007) Terrestrial ecosystems in a changing world. Springer Verlag. - Chapin FS, Matson PA, Mooney HA (2002) Principles of terrestrial ecosystem ecology. Springer Verlag. - Lambin EF, Geist HJ (2006) Land-use and land-cover change. Springer Verlag. - Newton PCD, et al. (2007) Agroecosystems in a changing climate. CRC. - Schlesinger W (1997) Biogeochemistry. Academic Press. - WRI - World Resources Institute (2000) World Resources 2000-2001: People and ecosystems, the fraying web of life. World Resources Institute. - Millenium Ecosystem Assessment - Ecosystems and Human Well-being (2005) Island Press. - Naeem S, et al. (2009) Biodiversity, Ecosystem Functioning, and Human Wellbeing. Oxford University Press. - Altieri, M. A. Agroecology: The Science of Sustainable Agriculture. Boulder, CO: Westview Press, 1995. - Gliessman, S. R. Agroecology: Ecological Processes in Sustainable Agriculture. Boca Raton, FL: CRC Press, 2000.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	End-of-semester written exam, 45 minutes 06.06.2024, 14:15 h, Botanik, Hörsaal 00.003
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch

40076-01 Vorlesung mit Übungen: Technical Basis of Generation, Distribution and Storage of Energy — 3 KP

Dozierende	**Rebecca Lordan-Perret**
Zeit und Ort	Di 10:15-12:00 Vesalianum, Seminarraum (O2.02)
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Komplementärer Basisbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	After taking this course, students - understand the technical/scientific basics of current energy generating and storing technologies; - understand the technical/scientific basis of how we move energy from where it is produced to where it is consumed; - understand the life-cycle perspective of each energy technology; - can evaluate diverse options for meeting future demand and addressing climate change.
Inhalt	In this course, we discuss the technical/scientific basis of energy generation, distribution, and storage. We begin with developing an understanding of what energy is, its forms, and where we find sources of energy here on earth. Next, we will describe in detail how we generate energy from those sources, with an emphasis on the physical and chemical conversions that must take place and how energy generation technologies work. We will consider a range of generation technologies from traditional centralized power plants to distributed energy sources. In each case, we will take a life-cycle perspective to evaluate the necessary inputs, production, availability, transportation and distribution, and waste streams of each technology. We will end by considering future energy demand scenarios, including changes in demand driven by new technologies (e.g., electric mobility, smart grids, energy storage),

	and how we can meet rising global energy demand and address the pressing environmental issue of our time, climate change.
Literatur	- MacKay, D. "Sustainability Without the Hot Air." https://www.withouthotair.com/ (free download available). - Muller, R. "Physics and Technology for Future Presidents." Princeton University Press: 2010 (selected chapters made available on ADAM; do not need to purchase the book). - Other selected readings posted on ADAM.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Regular attendance. Required readings and active participation. Problem sets as assigned during the semester. Written examination 28.05.24, during usual teaching time slot; venue: Vesalianum, first flooe, small lecture hall = Kleiner Hörsaal: O1.13. Repeat examination: tba in due time, for details see online course directory/section"Dates and rooms".
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD (incl. MSD preparation semester).
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	Mandatory for MSD students with focus area in social sciences and in economics. Unless you have a background in natural sciences and have already attended a similar course; you would have to substitute it by agreement with Prof. Dr. Patricia Holm (learning agreement). For students with focus area in natural sciences the lecture is optional (and can be attended if you have not attended a similar course already), credit points are to be transferred to the "Focal Areas in Sustainability Research" module (learning agreement). This lecture is offered by MSD. Dr. Rebecca Lordan-Perret holds a teaching assignment.

Modul: Komplementärer Basisbereich Gesellschaftswissenschaften

17403-01 Seminar: Governance, Sustainable Development and Democracy 3 KP

Dozierende	**Basil Bornemann**
Zeit und Ort	Do 10:15-11:45 Vesalianum, Seminarraum (O2.02) seminar starts on 29. February at 11.15!!!!!
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The participants - are familiar with the concepts 'governance', 'sustainable development' and 'democracy', they understand the interrelations and tensions between them; - have acquired basic theoretical, methodological and empirical knowledge and skills necessary to produce critically reflected scientific analyses of governance for sustainable development within various policy fields and political contexts. Subject to modifications.
Inhalt	Against the backdrop of persistent problems of unsustainability, there is a lively debate both in politics and in science on how to govern societies towards more sustainable pathways. In conceptual terms this debate increasingly builds on the notion of 'governance' which highlights both theoretical limits to classical models of political steering and the empirical insight that governments are not the only relevant actors when it comes to the management of societal issues. Instead, at least within the context of modern democracies, the contested, interdependent and dynamic nature of contemporary policymaking has given rise to less hierarchical but more collaborative and polycentric forms of governance. Accordingly, for

theoretical and empirical reasons, the governance of modern societies is more and more understood as a shared responsibility of the state, the market and the civil society.

This 'new governance complexity' is assumed to entail potentials and threats for sustainable development and democracy throwing up some fundamental questions regarding the relationship between all three concepts: How can societies be governed towards sustainable development in a democratic way? What are the normative and functional requirements of sustainability governance in democratic societies? What are the empirical conditions as well as prospects and barriers of democratic forms of governance for sustainable development within various political contexts? And, what are the implications of environmental change for the ways governance and democracy can be organized at and across spatial and temporal scales?

The seminar addresses the relationship between governance, sustainable development and democracy in theoretical and empirical respects. First, it will lay a theoretical fundament by introducing the concepts of governance, sustainable development and democracy. Second, specific approaches of governance for sustainable development will be critically discussed particularly with regard to their democratic implications. Third, a number of case studies of sustainability governance in different fields will provide an opportunity to analyze the democratic problem-solving capacity of different governance arrangements in various contexts. Finally, further theoretical and practical perspectives of democratic governance for sustainable development are sketched out.
Subject to modifications.

Literatur	Relevant literature tba during the seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, required readings, oral presentation, essay. Details according to information of lecturer.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required (for details see "course application" or "Anmeldung"). Limited number of participants (25): For students of the MSD with the focus area in natural sciences or economics the seminar is mandatory. This students and those of the JIDSD have a first priority. Students of the MSD with the focus area in social sciences have a second priority, those of the listed programs (see list of modules) have a third priority. If you don't study the MSD or one of the listed programs you must do a master's degree within the Department of Social Sciences/Faculty of Humanities and Social Sciences and may attend the seminar in case of vacancies (= priority level four). Additional entry requirements for participants who do not study the MSD (incl. preparation semester) or JIDSD: They must have passed succesfully one of the following lectures (= credit points already acquired) during a former semester: - 11513: Sustainability: A new Societal Paradigm? - 41829: Perspectives of Social Sciences on Sustainability.
Anmeldung zur Lehrveranstaltung	Please note entry requirements (for details see section "admission requirements". Mandatory application for ALL! Link open from 17.01.24/noon-06.02.24/midnight: https://adam.unibas.ch/goto_adam_crs_544052.html Login and application only possible with open link. Link only guides to the ADAM website. Login button on top row right hand side of ADAM website. First emails with confirmation of participation will be sent out at the end of the first deadline. In case of vacancies the online application link remains open until 07.03.24/noon. Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).

Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 Mandatory for students with focus area in natural sciences and in economics (unless you have passed a similar class in a former semester, then you would have to subtitute it by areement with PD Dr. Basil Bornemann and fix this in a learning agreement). For students with focus area in social sciences this seminar is optional for the "Core Competences in Social Scienes" module. They may accredit the credit points for the published module or transfer them to the "Focal Areas in Sustainability Research" module (learning agreement). On 29.02.2024 and 30.05.24 the seminar will start at 11.15 am. In accordance with the participants there will be an additional meeting in order to substitute the missing classes. The seminar is offered by MSD. PD Dr. B. Bornemann is an interim member of the Teaching Committee MSD, and of the Dep. of Social Sciences, Faculty of Humanities and Social Sciences, University of Basel.

11513-01 Vorlesung mit Übungen: Sustainability: A new Societal Paradigm? 3 KP

Dozierende	**Basil Bornemann** Marius Christen
Zeit und Ort	Do 12:00-13:45 Kollegienhaus, Hörsaal 117 Final exam: 13.06.24: room tba; repeat exam: details tba.
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Fields: Knowledge Production and Transfer (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The students - understand 'sustainable development' as a new alternative role model within the global societal development discourse; - know important theoretical social sciences based approaches to analyze sustainability issues and to conceptualize the role model. Subject to modifications.
Inhalt	Sustainable Development has become more and more influential since the famous Brundtland-report in shaping political, economic or individual decisions. However, it has also become a buzzword with many different meanings serving many different interests. Moreover, there are quite controversial theoretical approaches for conceptualizing sustainable development across different disciplines. Against this backdrop, this lecture provides a social science oriented basis for - understanding sustainable development as a new societal role model for human development; - conceptualizing sustainable development based on justice. Subject to modifications.
Literatur	Literature tba during lecture.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Regular attendance and active participation. Written examination: 13. June 24, during usual teaching time slot; room: lecture room tba. Repeat examination: 04.07.24, details tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz

Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	For MSD students (incl. MSD preparation semester), those of the IJDSD and the listed degree programs (see list of modules). Other students must do a master's degree within the Departement of Social Sciences/Faculty of Humanities and Social Sciences. NO bachelor students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	MSD 2017 Mandatory lecture for all. A different choice is only allowed for students, who have a) attended and accredited the same class for a former degree; b) attended and accredited a comparable class for a former degree. If a) or b) applies you have to register for a different course according to prior agreement with PD Dr. B. Bornemann. This lecture is offered by the MSD. PD Dr. B. Bornemann is an interim member of the Teaching Committee MSD and of the Dep. of Social Sciences, Faculty of Humanities and Social Sciences, University of Basel. Dr. M. Christen holds a teaching assignment. He is a team member of the Sustainability Research Group, of the Faculty of Humanities and Social Sciences, University of Basel.

Modul: Komplementärer Basisbereich Wirtschaftswissenschaften

10160-01 + Vorlesung: Introduction to Environmental Economics 3 KP

Dozierende	**Frank Christian Krysiak** Christian Nolde
Zeit und Ort	Di 12:15-14:00 Kollegienhaus, Hörsaal 118
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul Economics (ECON) II (Bachelorstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Modul: Aufbau Economics (Bachelorstudium: Wirtschaftswissenschaften) Modul: Komplementärer Basisbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Wirtschaft in Osteuropa (BSF - Osteuropäische Kulturen) Modul: Wahlbereich in Wirtschaftswissenschaften (BSF - Wirtschaftswissenschaften) Wahlbereich Bachelor Wirtschaftswissenschaften: Empfehlungen (BSF - Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Modul: Wirtschaft in Osteuropa (BSG - Osteuropa-Studien)
Lernziele	After taking this course you will know how to analyse environmental policy using the tools of economics. You will know economic concepts for understanding the causes of environmental degradation and for setting the objectives of environmental policy. You will be able to apply microeconomic theory to analyze the mechanisms via which different policy instruments influence the environmental behavior of firms. Finally, you will know for which type of environmental problem which type of environmental policy is likely to work well.
Inhalt	In this course, we use economic concepts and theories to analyze environmental policy. After a brief introduction to concepts for policy evaluation, we will discuss how instruments of environmental policy (taxes, standards, emissions trading, liability, subsidies) alter the behavior of economic actors, how these instruments should be designed and compare them. In addition, we will consider the question of how environmental policy influences green technological change. The course will use the examples of climate policy, the energy transition and (to a smaller extent) the transition to a circular economy as examples. The course has been redesigned to 3 ECTS (without resource economics, which is now a separate course). It consists of lectures and exercise sessions that will mostly alternate; you will receive a schedule (which week we have lectures or exercises) at the start of the term. Please take note that there are two mandatory problem sets (assignments) that you have to pass for being allowed to take the final exam.

Literatur	R. Perman, Y. Ma, J. McGilvray, M. Common and D. Maddison (2011), "Natural Resource and Environmental Economics", 4th edition, Pearson Education.
Weblink	https://wwz.unibas.ch/de/umweltoekonomie/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	There will be a written exam at the end of the term and two 2 mandatory problem sets during the term. To be admitted to the final exam, you have to get at least 50% of the total points of the two mandatory problem sets (the enrollment of students who do not meet this criterion will be cancelled). The grading will be based solely on your performance in the final exam. written exam: 13.06.24; 14:15-15:45. WWZ S13: A-KE; WWZ S15: KU-Z. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Students should either have passed 10130 (Grundlagen der VWL) or 48981 (Intensive Introduction to Intermediate Economics). If you have done 10130, it is recommended (but not required) to also do Intermediate Microeconomics (10134) before starting Environmental Economics. Students who already have passed the lecture 10160 Environmental and Resource Economics can't take this course again.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	The course will be taught "in class".

71004-01 Vorlesung: Resource Economics — 3 KP

Dozierende	Raul Hochuli **Frank Christian Krysiak**
Zeit und Ort	Mo 16:15-18:00 Wirtschaftswissenschaftliche Fakultät, Grosses PC-Labor S18 HG.37
Datum	26.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul Economics (ECON) II (Bachelorstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Modul: Aufbau Economics (Bachelorstudium: Wirtschaftswissenschaften) Modul: Komplementärer Basisbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Wahlbereich in Wirtschaftswissenschaften (BSF - Wirtschaftswissenschaften) Wahlbereich Bachelor Wirtschaftswissenschaften: Empfehlungen (BSF - Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))

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Lernziele	After taking this course, you will be able to analyze intertemporal planning problems in the context of natural resources using both theoretical arguments and numerical planning tools. You will learn how prices of exhaustible resources develop over time, how stock pollutants and renewable resources should be managed, and how policy interventions influence resource use. At a few examples, you will see how the complexity of natural resource systems renders resource management very difficult and thus why numerical approaches can be very helpful.
Inhalt	In this course, we consider environmental problems where present actions have long-term consequences, as is the case for climate change, for the use of exhaustible resources (oil, natural gas), for the use of many renewable resources (fish, fresh water). We will discuss how to describe the planning problem and how to solve it using numerical approaches. Thereby, we will start with simple problems (exhaustible resources) and move on to more complex ones (such as the management of predator-prey systems). In most cases, we will not only discuss what would be an economically optimal use of natural resource but also how resource management, market designs and environmental policy influence resource use. The course has been redesigned to 3 ECTS (without environmental economics, which is now a separate course). It consists of lectures and exercise sessions that will mostly alternate; you will receive a schedule (which week we have lectures or exercises) at the start of the term. Please take note that there are two mandatory problem sets (assignments) that you have to pass for being allowed to take the final exam. In the exercise sessions, you will work in small groups on numerical solutions to resource economic problems. You can use either Excel of Python to program and solve these problems. We will provide a brief introduction (which is an optional meeting) for both options at the start of the term.
Literatur	R. Perman, Y. Ma, J. McGilvray, M. Common and D. Maddison (2011), "Natural Resource and Environmental Economics", 4th edition, Pearson Education. We recommend (i.e., it is optional but helpful) that you also have a look at Chapters 1,2 and 5 of the open online course "Exploring Possible Futures" (https://tales.nmc.unibas.ch/en/exploring-possible-futures-44/) of the University of Basel, where we discuss the purpose of (numerical) models, basic modeling approaches and how to calibrate numerical models.
Weblink	https://wwz.unibas.ch/de/umweltoekonomie/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	There will be a written exam at the end of the term and two 2 mandatory problem sets during the term. To be admitted to the final exam, you have to get at least 50% of the total points of the two mandatory problem sets (the enrollment of students who do not meet this criterion will be cancelled). The grading will be based solely on your performance in the final exam. written exam: 04.06.24; 16:35-18:05. DSBG Sporthalle: A-Z. For this exam, you will receive additional information and your admission times by email three to four days before the exam date. You should be on site at least 20 minutes before the start of the exam. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Students should either have passed 10130 (Grundlagen der VWL) or 48981 (Intensive Introduction to Intermediate Economics). If you have done 10130, it is recommended (but not required) to also do Intermediate Microeconomics (10134) before starting Resource Economics.

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	Students who already have passed the lecture 10160 Environmental and Resource Economics can't take this course again.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!

Modul: Interdisziplinäre Forschung zu Nachhaltigkeit

50399-01 Kolloquium: Introduction to Ongoing MSD Master's Thesis 1 KP

Dozierende	Basil Bornemann Patricia Holm **Frank Christian Krysiak**
Zeit und Ort	Fr 14:15-19:00 Kollegienhaus, Hörsaal 115
Datum	08.03.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	Students - learn to perceive and understand other presentations; - get insights into other SD research topics; - learn to give constructive, specific feedback and to discuss the presented research topics; - learn to pose interesting questions on other student's presentations.
Inhalt	Within the study program of MSD 2017, students have to register 3 times in a 'master's thesis colloquium'. This colloquium on "ongoing master's thesis" is the first one to be attended (= colloquium A). The participants learn to understand the presented research designs, pose questions, and learn to give feedback.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance on site, in presence. Details regarding course assessment according to the information of the lecturers at the beginning of the first meeting.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Exclusively for MSD-students. No other students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	Schedule spring semester 2024: Meeting 1: 08.03.2024: starts at 14.15h (duration depends on the number of presentations). Meeting 2: 19.04.2024: starts at 14.15h (duration depends on the number of presentations). Meeting 3: 24.05.2024: starts at 14.15h (duration depends on the number of presentations, only presentations of results). Meeting 4: 31.05.2024: starts at 14.15h (duration depends on the number of presentations, only presentations of concepts). Meeting 5: 07.06.2024: starts at 14.15h (only if necessary; duration depends on the number of presentations). Details regarding duration of each meeting are published with the program usually sent out around 10 days before the colloquia take place.

This course is offered by the MSD.

52317-01	Kolloquium: Presentation of Concepts of MSD Master's Thesis	1 KP

Dozierende	Basil Bornemann Patricia Holm **Frank Christian Krysiak**
Zeit und Ort	Fr 14:15-19:00 - Siehe Bemerkung
Datum	08.03.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	Participants learn - to present research questions and a research concept to an interdisciplinary audience; - to place their research questions in an appropriate sustainability context; - to discuss research questions and concepts from other disciplines; - to provide constructive feedback to their fellow students.
Inhalt	Within the study program of MSD 2017, students have to register 3 times in a 'master's thesis colloquium'. This colloquium is the second one (= colloquium B). The participants present the research questions and the research design used in their master's theses. They prepare their presentations (of 10 minutes) in a way that is accessible to an interdisciplinary audience, focus on the relation of their research questions to sustainable development and the fit between these questions and the research design. The presentation is followed by 5' for questions of understandig. Details according to program of each meeting, sent out around 10 days beforehand.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance on site, in presence. Oral presentation of 10' minutes, followed by questions (5') and a discussion in group. The presentations are to be uploaded on ADAM by the presenters until Wednesday/noon before Friday of the presentation.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD who plan to submit the thesis application in the same semester. Prerequisit for the presentation in colloquium B is the former approval of the application by the teaching committee MSD. Students are supposed to present during the first session of the colloquium after approval (ususally takes place around 10 days later). The students are automatically listed for the corresponding date of the colloquium.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	Schedule spring semester 2024, lecture hall 115, Kollegienhaus: Meeting 1: 08.03.2024: starts at 14.15h (duration depends on the number of presentations). Meeting 2: 19.04.2024: starts at 14.15h (duration depends on the number of presentations). Meeting 3: 24.05.2024: starts at 14.15h (duration depends on the number of presentations, only presentations of results). Meeting 4: 31.05.2024: starts at 14.15h (duration depends on the number of presentations, only presentations of concepts). Meeting 5: 07.06.2024: starts at 14.15h (only if necessary; duration depends on the number of presentations). Details regarding duration of each meeting are published with the program usually sent out around 10 days before the colloquia take place. Only students who are abroad during the semester (doing field work) may participate online. Ask the main assessor (F. Krysiak) for the zoom link.

This course is offered by the MSD.

53982-01	Kolloquium: Presentation of Results of MSD Master's Thesis	1 KP

Dozierende	Basil Bornemann Patricia Holm **Frank Christian Krysiak**
Zeit und Ort	Fr 14:15-19:00 - Siehe Bemerkung
Datum	08.03.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	The students learn - to present research questions and a research results to an interdisciplinary audience; - to place their research questions in an appropriate sustainability context; - to discuss research questions and results from other disciplines; - to provide constructive feedback to their fellow students.
Inhalt	Within the study program of MSD 2017, students have to register 3 times in a 'master's thesis colloquium'. This colloquium is the third and last one (= colloquium C). The participants present the results of their master's theses. They prepare their presentations (of 10') in a way that is accessible to an interdisciplinary audience, focus on the relation of their research questions to sustainable development and the fit between these questions and the results of their theses. The presentation is followed by 5' for questions of understandig. Details according to program of each meeting, sent out around 10 days beforehand.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance on site, in presence. Oral presentation of 10' minutes, followed by questions (5') and a group discussion. The presentations are to be uploaded on ADAM by the presenters until Wednesday/noon before Friday of the presentation. Presenters have to register for a presentation, for details see section "course application".
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD who are already able to present the results of the master's theses. The theses have to be completed at least up to 80% or may have already been submitted prior to the final presentation.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five). Exclusively for MSD-students who have to present the results of the MSD master's thesis. No other students admitted. Presenters have to register for a presentation on: https://nuudel.ch/cU8SRiaLAMYsoG52 For prerequisits see "Admission requirements". Presentation time slots according to announcements.
Bemerkungen	Schedule spring semester 2024, lecture hall 115, Kollegienhaus: Meeting 1: 08.03.2024: starts at 14.15h (duration depends on the number of presentations). Meeting 2: 19.04.2024: starts at 14.15h (duration depends on the number of presentations). Meeting 3: 24.05.2024: starts at 14.15h (duration depends on the number of presentations, only presentations of results). Meeting 4: 31.05.2024: starts at 14.15h (duration depends on the number of presentations, only presentations of concepts).

Meeting 5: 07.06.2024: starts at 14.15h (only if necessary; duration depends on the number of presentations).

Details regarding duration of each meeting are published with the program usually sent out around 10 days before the colloquia take place. Only students who are abroad during the semester e.g. doing field work may participate online. Ask the main assessor (F. Krysiak) for the zoom link.

This course is offered by the MSD.

43494-01 Kolloquium: Survey Research Methodology 3 KP

Dozierende	**Daniel Auer**
Zeit und Ort	Fr 14:15-19:00 Wirtschaftswissenschaftliche Fakultät, Auditorium
Datum	22.03.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development) Modul: Specific Electives in Finance, Controlling, Banking (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Modul: Technology Field (Masterstudium: Business and Technology) Modul: Wahlbereich (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	1. Learn survey and survey experiment methods from an applied, practical point of view, 2. Learn how to use them in research by doing, 3. Learn fundamental and application of causal inference.
Inhalt	The course is an applied methods colloquium taught at a master's degree level. The main goal is to prepare us for conducting simple research and writing a short version of an academic report using a survey or survey-experiment method. The course covers two major areas: (1) the nature of surveys, including the typical psychology of attitude expressions, issues of question wording, context, and social desirability. Moreover, we learn how to implement online surveys; (2) the logic of causal inference and how to analyze and interpret treatment effects (for survey experiments). Survey-based data collection enables various interesting empirical studies. For example, public opinion studies investigate simple but fundamental puzzles around us. Why did (or did not) somebody vote, think, or behave in a certain way? Would people hold different perceptions on the same topic, product, or policy if some "X" happened? We will cover related theory and discuss contemporary empirical applications from economics, political science, and sociology. In parallel, students will draft and field their own surveys. The topic can be chosen freely and may relate to students' term papers or MA theses. The goal of the practical part of this course is to highlight advantages and caveats of survey research in a hands-on manner. For learning about and conducting surveys and survey experiments, we will use Qualtrics as a survey software and Stata for computing simple statistics, such as treatment effects. (Students are welcome to use R for their own analyses but the applied sessions in class will only cover Stata). Basic knowledge of statistics and regressions (e.g., OLS) is beneficial. If you have concerns about necessary prerequisites, do not hesitate to contact me at the beginning of the semester (daniel.auer@unibas.ch).
Literatur	tba
Weblink	https://daniel-auer.com/teaching/
Leistungsüberprüfung	Leistungsnachweis
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	(1) Active participation, (2) Presentation of a scientific study/design challenge, (3) Written seminar paper (3000 words).
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz

	Unterrichtssprache	Englisch
	Teilnahmevoraussetzungen	The course will use examples from economics, political science, and sociology, often related to inequality, attitudes, and individual preferences. For class assignments and research notes, however, students can choose their own topic of interest. Basic knowledge of sampling and statistics is useful. Basic knowledge of Stata is also useful (R as an alternative). Participation rule for MSD students: This is a mandatory class for all MSD students. Nonetheless, if you have attended the colloquium "50768: Survey Data Collection and Analytics" with Prof. Dr. A. Kachi and earned CP for it in a former semester you are not allowed to enrol for this colloquium 43494 and therefore, cannot earn CP anymore.
	Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
	Bemerkungen	Students are asked to bring their own laptops to the classes and have Stata installed. The course will be taught "in class".

60867-01 Kurs: Qualitative Research in Sustainability Science 3 KP

	Dozierende	**Annika Sohre**
	Zeit und Ort	Mi 10:15-12:00 Bernoullistrasse 14/16, Kleiner Seminarraum 02.001
	Datum	28.02.2024
	Intervall	wöchentlich
	Angebotsmuster	unregelmässig
	Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
	Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
	Lernziele	By the end of the semester the participants will have acquired the skills to carry out interviews and content analysis in the field of sustainability research.
	Inhalt	This hands-on course will teach techniques of qualitative methods in the social sciences, with a particular focus on interviews and content analysis. It will include background and practical aspects of data collection and data analysis. Specifically, in plenary sessions participants will gain a background on qualitative methods, on data collection (e.g., sampling strategies, techniques for developing guidelines ("Leitfaden"), according to different research designs, techniques for conducting interviews, dos and don'ts, challenges, recording and transcriptions, ethics, etc.) and on data analysis (content analysis, reference to MaxQDA and other analytical methods like discourse analysis/ ethnographic methods).
	Literatur	Recommendation (to orient yourself, details will be provided during the semester): Fahy, F., & Rau, H. (Eds.) (2013). Methods of Sustainability Research in the Social Sciences. London: Sage Publications. Kruse, J., & Schmieder, C. (2014). Qualitative Interviewforschung. Beltz Juventa. Mayring, P. (2004). Qualitative content analysis. A companion to qualitative research, 1(2004), 159-176. Moses, J. W., & Knutsen, T. L. (2012). Ways of knowing: Competing methodologies in social and political research (2nd ed.). New York, NY: Palgrave Macmillan. Ritchie, J., Lewis, J., Nicholls, C. M., & Ormston, R. (Eds.). (2013). Qualitative research practice: A guide for social science students and researchers. Sage. Weis, L., & Fine, M. (2000). Speed bumps: A student-friendly guide to qualitative research. Teachers College Press.
	Leistungsüberprüfung	Lehrveranst.-begleitend
	Skala	1-6 0,1
	Wiederholungsprüfung	keine Wiederholungsprüfung

An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence. Students will be divided into working groups to develop, collect data on and analyse interviews. Each group will present the results of their research and write a group report.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	NO other students admitted. Only for MSD students (incl. MSD preparation semester) and those of the IJDSD.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five). Only for MSD students (incl. MSD preparation semester) and those of the IJDSD.
Bemerkungen	All MSD students have to attend a methods course in social science within the IRS module. By default they have to attend this course (60867 Kurs: Qualitative Research in Sustainability Science). Students with a social science background who can demonstrate that they already have the knowledge taught in this course may take an alternative class according to the details recorded in the medium-term syllabus/spring semester 2024. No other module allocation possible. This course is offered by MSD. Dr. A. Sohre is a Senior Researcher of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences and head of the research network "Sustainable Future" (Univ. of Basel).

50729-01 Projekt: Training for Sustainability Research — 6 KP

Dozierende	**Marius Christen** Philipp Hirsch Frank Christian Krysiak Iljana Schubert
Zeit und Ort	Do 08:15-11:00 Vesalianum
Datum	29.02.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	Participants learn to work in an interdisciplinary group on a topic that is linked to sustainability research. They acquire practical knowledge regarding the interfaces between disciplines in sustainability research and methods for combining perspectives from different disciplines. Further, they gain knowledge how to scientifically deal with trade-offs in real-world issues, specifically between renewable resources and land use and how to synthesize and communicate this knowledge. In addition, participants expand their skills in team and project management.
Inhalt	Participants will work in interdisciplinary groups on a pre-selected topic of sustainability research. The topic will be linked to on-going research on trade-offs and will thematically focus on actual developments of energy policy in Switzerland. The student groups will review and link scientific literature from different disciplines and combine these studies to an evidence-based appraisal of trade-offs within the 'Federal Act on a Secure Electricity Supply from Renewable Energy Sources'. The emphasis is thus on identifying relevant literature, specifying the interdisciplinary research question(s) and combining disciplinary debates to an overall conclusion. To this end, participants will get both a joint supervision focusing on how to combine disciplinary approaches and a group-specific supervision focusing on the topic set for the group work.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Groups hand in a joint essay; presentations of group work.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz

Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD students (incl. MSD preparation semester) and those of the IJDSD. NO other students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five). Only for MSD students (incl. MSDpreparation semester) and those of the IJDSD. NO other students admitted.
Bemerkungen	Mandatory for all students of MSD 2017. Plenary sessions on: meeting 1: 29.02.24: 08.15-10.45 am; meeting 2: 04.04.24: 08.15-09.45 am; meeting 3: 02.05.24: 08.15-09.45 am; meeting 4: 30.05.24: 08.15-10.45 am (incl. final presentations). Meetings in between with faculty representatives according to announcements. This course is offered by MSD, with Prof. Dr. F. Krysiak (head MSD teaching committee), Dr. M. Christen and Dr. I. Schubert are holding teaching assignments (research group Sustainability Science), and PD. Dr. Ph. Hirsch, former staff member of MNE (MGU: Mensch-Gesellschaft-Umwelt)

48955-01 Seminar: Tools and Methods of Natural Sciences Research — 3 KP

Dozierende	**Priscilla Carrillo Barragan** Patricia Holm
Zeit und Ort	Mi 14:15-15:45 Vesalianum 13.03. and 17.04.24 until 18:00h. One field trip: 18. May 24 (keep the entire day free for this field trip).
Datum	28.02.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Interdisziplinäre Forschung zu Nachhaltigkeit (Masterstudium: Sustainable Development)
Lernziele	The students - understand the difference between a scientific and a non-scientific approach to a question; - can formulate scientific hypotheses and can distinguish them from a question or idea; - know about the difference between (I) empiricism and rationalism , (II) induction and deduction, (III) an observation and an experiment, (IV) descriptive and experimental approaches; - understand the influence of observer, equipment, and experimental design on the outcome of an experiment; - understand the importance of positive / negative controls and standards; - know natural science methods from fields that are important in the context of sustainability, such as molecular species identification, characterising air pollution, microplastics pollution, ecotoxicological assays, obtaining palaeoenvironmental data, and others; - and know what kind of information these methods can provide and are aware of their limitations.
Inhalt	We will mix lectures, case studies, and self-organized work shadowing to gain knowledge about selected methods and approaches of the natural sciences. P. Carillo Baragán will provide input on the scientific method in general and on specific methods, occasionally with the help of guest speakers. In addition, students will collect methodological expertise during work shadowing and literature work. The seminar will focus on methods which are relevant for sustainable development topics.
Literatur	Tba in class.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren

Hinweise zur Leistungsüberprüfung	Regular attendance, active participation, readings, oral presentation and written report: Details according to announcement by assessor.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD students (incl. MSD preparation semester). NO other students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	Practical blocs on 13. March and 17. April 2024: 14:15 - 18:00; and 18. May: field trip, entire day, details according to announcement. All MSD students have to attend a methods course in natural science within the IRS module. By default they have to attend this course (48995: Tools and Methods of Natural Sciences Research). Students with a natural science background who can demonstrate that they already have the knowledge taught in this course may take an alternative class according to the details recorded in the medium-term syllabus/spring semester 2023. No other module allocation possible. This seminar is offered by MSD. Dr. P. Carillo Baragán is a post doc staff member of MGU (Mensch-Gesellschaft-Umwelt), Dep. of Environmental Sciences, Faculty of Natural Sciences. Prof. Dr. P. Holm is part of the teaching committee MSD and leads the research group MGU.

Modul: Kernbereich Naturwissenschaften

70815-01 Kolloquium: MSD Life Science 1 KP

Dozierende	Serena Abel **Patricia Holm**
Zeit und Ort	Di 16:15-17:00 Vesalianum, Seminarraum (O2.02)
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	einmalig
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	Participants will - practice and improve their performance skills in the context of a presentation of scientific data; - practice and improve their ability to critically discuss scientific articles; - acquire knowledge about current topics, approaches and methods of scientific sustainability research (from the perspective of the natural sciences).
Inhalt	Current topics, scientific approaches and new methods in ecology and sustainable development; - presentation and discussion of own research projects (including master's theses); - presentation and discussion of important, groundbreaking publications.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, required readings, presentation. Details according to the information of the lecturers.
Belegen bei Nichtbestehen	nicht wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for MSD-students with focus area in natural sciences; and post docs & staff members of MGU.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	Please check the dates in the ADAM folder of this course. MSD: Compulsory course for ALL students with focus area in natural sciences (regardless of how the supervision and assessment of the master's thesis is organized). When to enroll for the colloquium is determined in consultation with Prof. Dr. P. Holm. This course is offered by the MSD. Prof. Dr. P. Holm is head of MGU and "Pathways of Sustainability" (TQNE) and is member of the teaching committee MSD. Dr. Serena Abel is a

post doc staff member of MGU (Mensch-Gesellschaft-Umwelt), Dep. of Environmental Sciences, Faculty of Natural Sciences.

23832-01 + Vorlesung: Oceanography: Regional Oceanography and Marine Ecosystems 2 KP

Dozierende	**Moritz Lehmann**
Zeit und Ort	Do 10:15-12:00 Bernoullistrasse 30/32, Hörsaal 103
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Geowissenschaften
Module	Modul: Aquatic and Isotope Biogeochemistry (Masterstudium: Geowissenschaften) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	Ziel der Vorlesungsveranstaltung ist es, ein besseres Verständnis der physischen, chemischen, und biogeochemischen Verhältnisse typischer mariner Ökosysteme und ausgewählter Meeresgebiete zu erlangen.
Inhalt	Aufbauend auf der Vorlesung Umweltsystem Ozean I: Einführung In die Ozeanographie werden in einer Einführung die wichtigsten Grundlagen der modernen Ozeanographie und der grossskaligen Hydrographie der Ozeane wiederholt. Es wird konkret auf Verhältnisse in bestimmten Meersregionen (tropisch, subtropisch, polar, Auftriebsgebiete, Randmeere) eingegangen und Besonderheiten der verschiedenen marinen Ökosysteme (z.B. Schelfmeere/ Küste, Tiefsee, ästuarine Systeme) besprochen. Dabei werden speziell auch biogeochemische Prozesse behandelt, welche an den Grenzschichten zur Atmosphäre und zu den Sedimenten stattfinden.
Literatur	Es werden wöchentlich vorlesungsbegleitende Unterlagen (PPT-Präsentationen) und ggf. Artikel aus wissenschaftlichen Zeitschriften ausgegeben. Bücher: - The Open University. Oceanography Course Team. Mehrere Bände, Pergamon Press 1989 ff - Tomczak und Godfrey: Regional Oceanography: An Introduction, Pergamon Press, 1996
Weblink	https://duw.unibas.ch/de/bgc/
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Semesterendklausur und Referat zu ausgewählten Themen der Vorlesung.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot fakultativ
Unterrichtssprache	Deutsch
Bemerkungen	In der zweiten Semesterhälfte findet die Vorlesungsveranstaltung im Seminarstil statt.

27336-01 Vorlesung: Pflanzenschutz und nachhaltiger Pflanzenbau 1 KP

Dozierende	Pascale Flury **Dominik Klauser**
Zeit und Ort	Di 16:15-18:00 Bernoullistrasse 30/32, Hörsaal 103
Datum	05.03.2024
Intervall	14-täglich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Integrative Biologie
Module	Lehrveranstaltungen Masterstudium Pflanzenwissenschaften (Masterstudium: Pflanzenwissenschaften) Lehrveranstaltungen Masterstudium Ökologie (Masterstudium: Ökologie) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development) Wahlbereich Bachelor Biologie: Empfehlungen (Bachelorstudium: Biologie (Studienbeginn vor 01.08.2022)) Wahlbereich Bachelor Biologie: Empfehlungen (Bachelorstudium: Biologie)
Inhalt	Die Vorlesung gibt einen allgemeinen Überblick über die wichtigsten Pflanzenschutzmethoden und -konzepte. Dies beinhaltet biologische, chemische and physikalische Ansätze für den Pflanzenschutz sowie Methoden zur Resistenzzüchtung bei Nutzpflanzen. Themenschwerpunkte: Bedeutung des Pflanzenschutzes in der Landwirtschaft, wichtigste Pflanzenkrankheiten und -schädlinge, Methoden des Pflanzenschutzes, integrative Ansätze, Verhinderung der Resistenzbildung bei Schädlingen und Krankheitserregern. **** This lecture provides an overview on the most important methods and concepts in Crop

	Protection. This includes chemical, biological, physical and agronomic concepts for managing biotic and abiotic stresses. Furthermore, breeding-based approaches will also be considered.
Literatur	Scripts will be provided on the ADAM platform the day before the lecture.
Weblink	https://adam.unibas.ch/goto.php?target=crs_1018042&client_id=adam
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Written exam 45 minutes, 28.05.2024, 16:15h, Bernoullianum, Hörsaal 103
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Anmeldung zur Lehrveranstaltung	
Bemerkungen	The lecture will be given in German or English, as necessary.

50264-01 Vorlesung mit Übungen: Global Change Ecology 3 KP

Dozierende	**Serena Abel**
Zeit und Ort	Di 14:15-16:00 Vesalianum
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)
Lernziele	The students - understand the ecological effects of global change in different ecosystems and can explain patterns and the underlying mechanisms; - can critically analyze existing research approaches and available data in the context of global change ecology; - can identify the interface between the approach of ecological sciences and other sciences to describe and understand global change; - understand the challenges of finding solutions to the negative effects of global change.
Inhalt	We will treat the ecological relationships of global change following a hierarchical flow: going from basic food web effects to multiple trophic relationships, eventually including humans as recipients and agents of global change. Furthermore, we will frequently use aquatic ecosystems as case studies because they are disproportionally affected by global change and their ecosystem services are especially threatened and especially important to humans. Finally, we will consider global change beyond climate change and will treat land-use change, global transport and trade, change of human consumption patterns and pollution, global energy system change, species extinctions and invasions, and more. Specific topics include (but are not limited to!): 1) eco-evolutionary effects of land-use change and eutrophication, including a discussion of mitigation measures and socio-cultural effects; 2) ecological effects of earlier spring across multiple species in terrestrial food webs; 3) ecological effects and ecosystem service changes due to global species extinctions; 4) ecological and socio-economic effects of the global renewable energy development, including a discussion of future solutions; 5) human consumption patterns and ecological effects of microplastics pollution, including a discussion of the feasibility of existing solutions; 6) ecological and socio-economic effects and transdisciplinary management approaches of biological invasions, including a discussion of currently available management options. The lecture - will be research-based. It will include specific case studies from the primary literature and will connect to current ongoing research; - will also include application sections focusing on the discussion of existing solutions for mitigating the negative ecological effects of global change: - will include specific local connections to the situation in Switzerland. Practical course: As a practical part each student will create a learning portfolio in parallel to the lecture. In this portfolio key questions raised in the lectures will be answered by students off class using own

	resources (e.g. literature research). The portfolios will be collected and commented by peers and the lecturer. Based on this feedback the portfolios are developed as a complementary resource to the lecture slides in preparation for the final written exam. The portfolios serve to practice the access to the course and exam content but will not be graded.
Literatur	Research articles as pdf-upload on ADAM will be supplied during the course.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Regular attendance, readings, create a learning portfolio. Written examination: 28.05.2024, during usual lecture time, room tba. Repetition exam: details tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Mandatory course application, for details see "course application" or "Anmeldung". Limited number of participants (25). Students of the MSD (incl. MSD preparation semester) have a first priority. Non-MSD students must be studying a master's degree within the Department of Environmental Sciences/Faculty of Siences and can attend this class in case of vacancies. MSD 2017 Students who have chosen the focus area in social sciences or in economics must have completed the 'Complementary Knowledge in Natural Sciences' module (or earned at least 8 CP).
Anmeldung zur Lehrveranstaltung	Please note entry requirements (for details see section "admission requirements". Mandatory application for ALL! Link open from 17.01.24/noon-06.02.24/midnight: https://adam.unibas.ch/goto_adam_crs_544052.html Login and application only possible with open link. Link guides to the ADAM website. Login button on top row right hand side of ADAM website. First emails with confirmation of participation will be sent out at the end of the first deadline. In case of vacancies the online application link remains open until 07.03.24/noon. Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).
Bemerkungen	Please note the specific entry requirements and mandatory course application procedure (additional to registration on MOnA). For details see section "admission requirements". MSD 2017 Mandatory lecture for MSD students with focus area in natural sciences, CP can only be recognized for the published module. Students with focus area in social siences or in economics have to transfer the credit points to the FASR module (learning agreement). This lecture is offered by MSD. S. Abel is a post doc staff member of Man-Society-Environment (MGU), Dep. Environmental Sciences, Faculty of Sciences.

60310-01 Vorlesung mit Übungen: Introduction to Organic Farming Systems — 3 KP

Dozierende	**Else Bünemann-König**
Zeit und Ort	Fr 12:15-14:00 Botanik, Hörsaal 00.003
Datum	01.03.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Integrative Biologie
Module	Lehrveranstaltungen Masterstudium Pflanzenwissenschaften (Masterstudium: Pflanzenwissenschaften) Lehrveranstaltungen Masterstudium Ökologie (Masterstudium: Ökologie) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development)

Universität Basel

	Modul: Landscape Systems (Masterstudium: Geowissenschaften) Doktorat Botanik: Empfehlungen (PF - Botanik)
Lernziele	The students are familiar with the principles and practices of organic farming. They can evaluate the strength and weeks of the farming systems and know the specific challenges in the areas of soil management, plant production and animal husbandry. The students are capable to judge critically the solutions of organic agriculture in view of a sustainable production. Detailed “Lernziele” will be provided for each lecture on ADAM.
Inhalt	Deepening knowledge in farming systems is essential because agriculture is a major driver for environmental pressures through land use change and the use of inputs in form of energy, fertilizers and pesticides. The European Commission aims at increasing Organic farming in Europe to 25% until 2030, as it is considered as one promising option to solve the current problems of intensive agriculture encountering loss of soil fertility, decrease of biodiversity, the excessive use of natural resources and climate change. The lecture is organised as a lecture series (“Ringvorlesung”), where experts in soil, plant and animal sciences and socioeconomics will outline the principles and practices of organic agriculture, amended by case studies. In a group exercise, the students will develop their own thoughts resilience aspects of organic farming in one topic presented in the lectures, and will present it to the other participants. During a half-day excursion the theoretical material is illustrated on a long-term system comparison experiment and a practical farm in the valley of Leimen. Lecture 1: Introduction Lecture 2: Soil Lecture 3: Plant production Lecture 4, 5: Agro-Biodiversity and plant protection Lecture 6: Animal husbandry Lecture 7: Policy Lecture 8: Sustainability and food systems Lecture 9: Tropics & food quality Lecture 10: Presentation of group work and discussion Excursion I to the DOK long-term system comparison experiment and (community supported agriculture) at Birsmattehof, Therwil (optional) Excursion II FiBL Farm: experimental platform animal science, Frick long-term experiment reduced tillage, orchards (optional)
Weblink	https://adam.unibas.ch/ilias.php?ref_id=1106542&cmd=return&cmdClass=ilrepositorygui&cmdNode=w4&baseClass=ilRepositoryGUI&redirectSource=ilobjfilegui&cmdMode=
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	1. group work on future development of organic agriculture and resilience aspects, focussing on one topic; reflection of paper plus presentation of the group work in form of a poster. 2. Written exam on Friday, 31.05.2024, 12:15-13:45 h in the lecture hall 00.003, Botany building, Schönbeinstrasse 6 Preconditions for the exam: presentation of group work
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Students of the MSD without background in natural sciences, and who have chosen the focus area in social sciences or in economics must have completed the 'Complementary Knowledge in Natural Sciences' module (or at least earned 8 CP). Credit points are to be transferred to the FASR module (with learning agreement).
Bemerkungen	Lecturers: Experts of the respective disciplines at FiBL, actively involved in national and European research with a strong link to practical farmers.

23839-01 Vorlesung mit Übungen: Introduction to Research Projects of Environmental Geosciences and Biogeochemistry 4 KP

Dozierende	**Christine Alewell** Surya Gupta Sarah Nemiah Ladd Moritz Lehmann
Zeit und Ort	Fr 09:00-17:30 Bernoullistrasse 30/32, Hörsaal 223 Vorbesprechung: 04.03.2024; 16:30 Uhr 4 Termine, jeweils Freitag, 9:00-17.30 Uhr, die definitiven Termine werden an der Vorbesprechung festgelegt

Datum	04.03.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Geowissenschaften
Module	Modul: Aquatic and Isotope Biogeochemistry (Masterstudium: Geowissenschaften) Modul: Kernbereich Naturwissenschaften (Masterstudium: Sustainable Development) Modul: Sustainable Resource and Soil Management (Masterstudium: Geowissenschaften)
Lernziele	Das Verständnis für komplexe Fragestellungen in aktuellen Forschungsprojekten soll gefördert werden. Gleichzeitig werden die in vorausgegangenen Lehrveranstaltungen gelegten Grundkenntnisse in Biogeochemie, Bodenkunde und Isotopengeochemie vertieft.
Inhalt	Die Dozierenden stellen Hintergründe, Fragestellung und Ergebnisse aus Forschungsprojekten und aktuellen Fragestellungen der Umweltgeowissenschaften und Biogeochemie vor. Dabei wird vor allem auf die Aufarbeitung der theoretischen Hintergründe wert gelegt. Daneben wird die Diskussion von Übertragbarkeit der Ergebnisse zwischen verschiedenen räumlichen Skalen oder auch die Bedeutung der Forschungsergebnisse in der Praxis ein Rolle spielen. Inhaltlich werden Beispiele aus der terrestrischen und aquatischen Biogeochemie, Bodenkunde und Isotopengeochemie behandelt.
Weblink	https://duw.unibas.ch/de/umweltgeowissenschaften/
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Mündliches oder schriftliches Referat. Eine Wiederholungsprüfung ist möglich. Ganztägige Anwesenheit an allen Veranstaltungstagen ist Pflicht.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	Online-Angebot fakultativ
Unterrichtssprache	Deutsch
Teilnahmevoraussetzungen	Die Lehrveranstaltung richtet sich an Studierende des Masters Geowissenschaften mit der Vertiefung in Aquatic and Isotope Biogeochemistry oder Sustainable Resource and Soil Management. Andere Masterstudierende der Geowissenschaften sind willkommen.

Modul: Kernbereich Gesellschaftswissenschaften

43667-01 Seminar: Changing Individual Energy Behaviour - Approaches and Strategies 3 KP

Dozierende	**Iljana Schubert**
Zeit und Ort	Mo 10:15-12:00 Vesalianum
Datum	26.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	You will - learn disciplinary approaches about changing individual energy behaviour from economics, psychology, sociology etc.; - understand the benefits and the necessity of an interdisciplinary (and transdisciplinary) approaches to understand changes in individual energy behaviour; - be able to identify different intervention and governance strategies to change individual energy behaviour; - apply your understanding through activities in different seminar session.
Inhalt	Transforming today's energy systems in industrialized countries includes a substantial reduction of the total energy consumption at the individual level. Selected instruments have been found to be effective in changing people's behaviour in single domains, however, households seem to be quite inert in their energy consumption. Although small process has been made to reduce the overall energy consumption this is not enough. In addition, our understanding of the determining factors of individual energy consumption as well as of its change is growing but still far from being conclusive. In this seminar, we think about households or individuals of consumers of energy services rather than energy consumers per se. This viewpoint widens the horizon to also include people's („socially constructed“) wants. We will introduce different disciplinary approaches from the field of changing individual energy behaviour and also different domains of behaviour change to clarify the diverging perceptions of the opportunities to change behaviour. For example, in economics, energy is

	often seen as a commodity and consumers will adapt usage in response to price signals. In psychology, on the other hand, energy use is understood as being affected by norms, values and perceived ability to change behaviour, to name a few mechanisms for promoting change. Sociology is often not looking at individuals but at practices displaying social meanings in relation to „materials", for example. Having revealed strengths and weaknesses of these different approaches we will look at an interdisciplinary framework which integrates the different perspectives and think about how inter- and transdisciplinary research can advance the field and changes in society. Finally, we will further investigate and discuss the prospects and limitations of different intervention and governance strategies (on multiple levels) that are directed at changing individual energy behaviour.
Literatur	tba in class
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Regular attendance, required reading, oral presentation, written essay.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required for ALL (for details see 'course application' or 'Anmeldung'). Limited number of participants (25), Students of the MSD (incl. MSD preparation semester) and JIDSD have a first priority, those of the listed programs (see list of modules) have a second priority. If you study something different you must do a master's degree within the Department of Social Sciences/Faculty of Humanities and Social Sciences and may attend the seminar in case of vacancies (= third priority). MSD 2017 MSD students who have chosen the focus area in natural sciences or in economics must have completed (or at least 8 CP) the “Complementary Knowledge in Social Sciences” module.
Anmeldung zur Lehrveranstaltung	Please note entry requirements (for details see section "admission requirements". Mandatory application for ALL! Link open from 17.01.24/noon-06.02.24/midnight: https://adam.unibas.ch/goto_adam_crs_544052.html Login and application only possible with open link. Link guides to the ADAM website. Login button on top row right hand side of ADAM website. First emails with confirmation of participation will be sent out at the end of the first deadline. In case of vacancies the online application link remains open until 07.03.24/noon. Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 For students with focus area in social sciences the seminar is optional for the "Core Competences in Social Scienes" module. The recognition of credit points for the "Focal Areas in Sustainability Research" module (learning agreement) is possible for all students. This seminar is offered by the MSD. Dr. Iljana Schubert is a member of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences.

17403-01 Seminar: Governance, Sustainable Development and Democracy 3 KP

Dozierende	**Basil Bornemann**
Zeit und Ort	Do 10:15-11:45 Vesalianum, Seminarraum (O2.02) seminar starts on 29. February at 11.15!!!!!
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.

Universität Basel

Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The participants - are familiar with the concepts 'governance', 'sustainable development' and 'democracy', they understand the interrelations and tensions between them; - have acquired basic theoretical, methodological and empirical knowledge and skills necessary to produce critically reflected scientific analyses of governance for sustainable development within various policy fields and political contexts. Subject to modifications.
Inhalt	Against the backdrop of persistent problems of unsustainability, there is a lively debate both in politics and in science on how to govern societies towards more sustainable pathways. In conceptual terms this debate increasingly builds on the notion of 'governance' which highlights both theoretical limits to classical models of political steering and the empirical insight that governments are not the only relevant actors when it comes to the management of societal issues. Instead, at least within the context of modern democracies, the contested, interdependent and dynamic nature of contemporary policymaking has given rise to less hierarchical but more collaborative and polycentric forms of governance. Accordingly, for theoretical and empirical reasons, the governance of modern societies is more and more understood as a shared responsibility of the state, the market and the civil society. This 'new governance complexity' is assumed to entail potentials and threats for sustainable development and democracy throwing up some fundamental questions regarding the relationship between all three concepts: How can societies be governed towards sustainable development in a democratic way? What are the normative and functional requirements of sustainability governance in democratic societies? What are the empirical conditions as well as prospects and barriers of democratic forms of governance for sustainable development within various political contexts? And, what are the implications of environmental change for the ways governance and democracy can be organized at and across spatial and temporal scales? The seminar addresses the relationship between governance, sustainable development and democracy in theoretical and empirical respects. First, it will lay a theoretical fundament by introducing the concepts of governance, sustainable development and democracy. Second, specific approaches of governance for sustainable development will be critically discussed particularly with regard to their democratic implications. Third, a number of case studies of sustainability governance in different fields will provide an opportunity to analyze the democratic problem-solving capacity of different governance arrangements in various contexts. Finally, further theoretical and practical perspectives of democratic governance for sustainable development are sketched out. Subject to modifications.
Literatur	Relevant literature tba during the seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, required readings, oral presentation, essay. Details according to information of lecturer.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required (for details see "course application" or "Anmeldung"). Limited number of participants (25): For students of the MSD with the focus area in natural sciences or economics the seminar is mandatory. This students and those of the JIDSD have a first priority. Students of the MSD with the focus area in social sciences have a second priority, those of the listed programs (see list of modules) have a third priority. If you don't study the MSD or one of the listed programs you must do a master's degree within the Department of Social Sciences/Faculty of Humanities and Social Sciences and may

attend the seminar in case of vacancies (= priority level four).

Additional entry requirements for participants who do not study the MSD (incl. preparation semester) or JIDSD:
They must have passed succesfully one of the following lectures (= credit points already acquired) during a former semester:
- 11513: Sustainability: A new Societal Paradigm?
- 41829: Perspectives of Social Sciences on Sustainability.

Anmeldung zur Lehrveranstaltung

Please note entry requirements (for details see section "admission requirements".

Mandatory application for ALL! Link open from 17.01.24/noon-06.02.24/midnight:
https://adam.unibas.ch/goto_adam_crs_544052.html

Login and application only possible with open link. Link only guides to the ADAM website. Login button on top row right hand side of ADAM website. First emails with confirmation of participation will be sent out at the end of the first deadline.

In case of vacancies the online application link remains open until 07.03.24/noon.

Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).

Bemerkungen

Please note entry requirements and mandatory course application procedure (additional to registration on MOnA).

MSD 2017
Mandatory for students with focus area in natural sciences and in economics (unless you have passed a similar class in a former semester, then you would have to subtitute it by areement with PD Dr. Basil Bornemann and fix this in a learning agreement).
For students with focus area in social sciences this seminar is optional for the "Core Competences in Social Scienes" module. They may accredit the credit points for the published module or transfer them to the "Focal Areas in Sustainability Research" module (learning agreement).

On 29.02.2024 and 30.05.24 the seminar will start at 11.15 am. In accordance with the participants there will be an additional meeting in order to substitute the missing classes.

The seminar is offered by MSD. PD Dr. B. Bornemann is an interim member of the Teaching Committee MSD, and of the Dep. of Social Sciences, Faculty of Humanities and Social Sciences, University of Basel.

71012-01 Seminar: Sozial-ökologische Transformationen: theoretische Konzepte, empirische Befunde und politische Gestaltungsansätze 3 KP

Dozierende	**Karl-Werner Brand**
Zeit und Ort	Fr 13:15-16:00 Bernoullistrasse 14/16, Seminarraum 02.004 Daten: Freitag, 5.4.2024, 13:15 - 16 Uhr Samstag, 25.5.2024, 9:15 - 17 Uhr Sonntag, 26.5.2024, 9:15 - 13 Uhr Samstag, 8.6.2024, 9:15 - 17 Uhr Sonntag, 9.6.2024, 9:15 - 13 Uhr
Datum	05.04.2024
Intervall	Block
Angebotsmuster	einmalig
Anbietende Organisationseinheit	Fachbereich Soziologie
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Arbeit, Migration und Gesellschaft (Masterstudium: European Global Studies) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Erweiterung Gesellschaftswissenschaften M.A. (MSF - Politikwissenschaft) Modul: Ungleichheit, Konflikt, Kultur (MSF - Soziologie) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)

Lernziele	- Kritisches Wissen um die zentralen Kontroversen in der sozial-ökologischen Transformationsdebatte - Verständnis für das komplexe Geflecht an Faktoren, die sozial-ökologische Transformationsprozesse beeinflussen - Wissen um die zentralen Blockaden sowie um die sozialen Voraussetzungen, Ansatzpunkte und Gestaltungsmöglichkeiten sozial-ökologischer Transformationen - Wissen um die zentralen gesellschaftlichen Konflikte, die sich an sozial-ökologischen Transformationsprozessen entzünden - Wissen um die Überlagerung sozial-ökologischer Transformationsdynamiken durch weitere globale Krisen- und Umbruchs-dynamiken
Inhalt	Vor dem Hintergrund sich verschärfender globaler ökologischer Problemlagen (insbesondere des Klimawandels) geht es in sozial-ökologischen Transformationen um einen gezielten Umbau moderner, fossil basierter, kapitalistisch-industrieller Naturverhältnisse in Richtung nachhaltigerer, post-fossiler Wirtschafts- und Lebensweisen. Das kann gelingen oder auch scheitern. Entsprechende Transformationsbemühungen können sich auf kein historisches Vorbild beziehen; sie bewegen sich in einer ungewissen, umkämpften Zukunft. Eine besondere Herausforderung stellen dabei sowohl die unterschiedlichen Zeitskalen gesellschaftlicher und natürlicher Prozesse als auch die Globalität der ökologischen Problematik dar. Letztere nötigt dazu, in einer ökonomisch zwar eng verflochtenen, politisch, kulturell, wirtschaftlich und sozial aber hochgradig heterogenen, von Ungleichheiten, Konflikten und Kriegen durchzogenen, nationalstaatlich verfassten Welt kollektive Lösungen für diese Problematik zu finden. Entgegen der von KlimawissenschaftlerInnen wie von Seiten umweltpolitisch engagierter Kreise geforderten raschen, radikalen Umbaumassnahmen („Grosse Transformation“) erfolgt dieser Transformationsprozess bisher allerdings nur in Trippelschritten. Das liegt u.a. an konkurrierenden Zielvisionen, an der Beharrungskraft etablierter Interessen, Machtverhältnissen, Lebensformen und Mentalitäten, an technischen, ökonomischen und institutionellen Pfadabhängigkeiten sowie an den bereits erwähnten Problemen internationaler Konsensfindung. In dem Masse, in dem der Transformationsprozess an Tempo zulegt, verschärfen sich allerdings auch die politischen Umsetzungskonflikte. Auf nationaler Ebene führt das zu neuen politisch-kulturellen Polarisierungen (zwischen rechts-populistischen Bestands- und sozial-ökologischen Transformationsinteressen der progressiven, grünen Mitte). Auf der internationalen Ebene vermischen sich sozial-ökologische Transformationskonflikte mit Zurechnungs-, Interessen- und Verteilungskonflikten, zunehmend aber auch mit geostrategischen Machtfragen. Sozial-ökologische Transformationen finden heute ganz generell in einem globalen Umfeld multipler Krisen und Umbruchsdynamiken statt. Auch wenn dies gezielte sozial-ökologische Transformationsprozesse erheblich erschwert – und die Steuerungs- oder Gestaltungsmöglichkeit tiefgreifender gesellschaftlicher Wandlungsprozesse von SozialwissenschaftlerInnen ohnehin meist skeptisch beurteilt wird – bieten sich gleichwohl die verschiedensten Möglichkeiten und Ansatzpunkte, diesen Prozess voranzutreiben. Neben der vertieften Diskussion der typischen Blockaden und Erschwernisse sollen im Seminar diese Ansatzpunkte, Voraussetzungen und Beschleunigungsmöglichkeiten sozial-ökologischer Transformationen genauer beleuchtet werden – aber auch die möglichen Folgen des Entwicklungsszenarios „too little, too late“. In einer Einführungsveranstaltung am 5. April 2024 werden diese Fragen eingangs noch einmal grob umrissen, die Bearbeitungsmöglichkeiten im Seminar diskutiert (ggf. auch anhand spezieller Themenbereiche wie Energie, Mobilität, Ernährung etc.) und die Seminarthemen verteilt.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: nicht erforderlich
Hinweise zur Leistungsüberprüfung	Die Leistungsnachweise werden in den auf die Einführungsveranstaltung folgenden Seminarblöcken – seminarbegleitend – durch ausgewählte, ggf. auch schriftlich kommentierte Lektüre, themenspezifische Präsentationen und Gruppendiskussionen zu den jeweiligen Themenfeldern erbracht.
Belegen bei Nichtbestehen	nicht wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Deutsch
Bemerkungen	Dozent: Prof. Karl-Werner Brand (kw.brand@src-brand.de)

70816-01 Seminar: Sustainability Governance in International Value Chains 3 KP

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Dozierende	**Janina Grabs**
Zeit und Ort	Mo 14:15-18:00 Bernoullistrasse 14/16, Seminarraum 02.004 For details see section "comments" (Bemerkungen) or "dates and room" (Zeit und Ort).
Datum	10.06.2024
Intervall	Block
Angebotsmuster	einmalig
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Handel und Unternehmen in der Globalisierung (Masterstudium: European Global Studies) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Erweiterung Gesellschaftswissenschaften M.A. (MSF - Politikwissenschaft) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	On completion of this course, students should be able to: - Demonstrate an understanding of the justification for the involvement of public and private actors in governing sustainability in international value chains (WHY should sustainability be governed?) - Examine the advantages and drawbacks of public vs. private and global vs. local approaches at governing sustainability (WHO should govern sustainability?) - Critically evaluate the appropriateness and success of different governance mechanisms, employing concepts such as legitimacy, effectiveness, deliberative capacity, and representativeness (HOW should sustainability be governed?) - Summarize and critically discuss the main arguments of an academic article - And write a well-structured, in-depth essay examining a clearly stated research question, using clear and compelling arguments grounded in governance, business ethics and/or sustainability theory.
Inhalt	Child labor, deforestation, environmental pollution, human rights abuses - there are many sustainability issues in international value chains that need to be solved. This interdisciplinary seminar gives an overview of governance tools that governments, NGOs and private actors have developed to improve the economic, social and environmental sustainability of international production and consumption. From international trade agreements to local fisheries councils, from Fair Trade certifications to public-private partnerships, we will study the accomplishments and shortcomings of many real-world mechanisms on different levels of the global-local and public-private spectrums. The literature covered will include approaches from political science, international law, business ethics and economics that critically examine questions of legitimacy, effectiveness, and representativeness of existing approaches. We will also incorporate many current issues into our discussions.
Literatur	A detailed list will be provided in class. For a general overview see titles listed below: - Auld, G., Bernstein, S., & Cashore, B. (2008). The new corporate social responsibility. Annual Review of Environment and Resources, 33, 413-435. - Burchell, J., & Cook, J. (2013). Sleeping with the enemy? Strategic transformations in business–NGO relationships through stakeholder dialogue. Journal of Business Ethics, 113(3), 505-518. - Lambin, E. F., & Thorlakson, T. (2018). Sustainability Standards: Interactions Between Private Actors, Civil Society, and Governments. Annual Review of Environment and Resources, 43(1), 369–393. https://doi.org/10.1146/annurev-environ-102017-025931
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsary attendance in presence, required reading, oral presentation, written essay. Details according to information of lecturer.
Belegen bei Nichtbestehen	nicht wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required for ALL (for details see section 'course application' or 'Anmeldung'). Limited number of participants (25). Students of the MSD (incl. preparation semester and IJDSD) have a first priority.

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Students of the listed programs (see list of modules) have a second priority.
If you study something different you must do at least a master's degree within the Department of Social Sciences (Faculty of Humanities and Social Sciences) and may attend the seminar in case of vacancies (these applications have the priority level three). No other students admitted.

Content related participation REQUIREMENTS for NON-MSD/IJDSD-students: They must have passed succesfully one of the following lectures (= credit points already acquired) during a former semester:
- 11513: Sustainability: A new Societal Paradigm?
- 41829: Perspectives of Social Sciences on Sustainability.

MSD 2017
MSD students who have chosen the focus area in natural sciences or in economics must have completed (or earned at least 8 CP) the “Complementary Knowledge in Social Sciences” module.

Anmeldung zur Lehrveranstaltung

Please note entry requirements (for details see section "admission requirements".

Mandatory application for ALL! Link open from 17.01.24/noon-06.02.24/midnight: https://adam.unibas.ch/goto_adam_crs_544052.html

Login and application only possible with open link. Link guides to the ADAM website. Login button on top row right hand side of ADAM website. First emails with confirmation of participation will be sent out at the end of the first deadline.

In case of vacancies the online application link remains open until 24.03.24/midnight!!!

Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).

Bemerkungen

Please note entry requirements and mandatory course application procedure (additional to registration on MOnA).

Schedule bloc seminar:
- week 24: Monday, 10. June Thursday, 13. June; and Friday, 14. June 24. Always from 2.15 - 06:00 pm. Break(s) according to information of lecturer.
- week 25: Monday, 17. June to Thursday, 20. June 24. Always from 2.15 - 06:00 pm. Break(s) according to information of lecturer.

MSD 2017
For students with focus area in social sciences the seminar is optional for the "Core Competences in Social Scienes" module.
The recognition of credit points to the "Focal Areas in Sustainability Research" module (learning agreement) is possible for all MSD students.

This seminar is offered by the MSD. Prof. Dr. Janina Grabs is the new head of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences (from 01. June 24 on).

11513-01 Vorlesung mit Übungen: Sustainability: A new Societal Paradigm? 3 KP

Dozierende	**Basil Bornemann** Marius Christen
Zeit und Ort	Do 12:00-13:45 Kollegienhaus, Hörsaal 117 Final exam: 13.06.24: room tba; repeat exam: details tba.
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Kernbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Komplementärer Basisbereich Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Fields: Knowledge Production and Transfer (MSG - African Studies)

	Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	The students - understand 'sustainable development' as a new alternative role model within the global societal development discourse; - know important theoretical social sciences based approaches to analyze sustainability issues and to conceptualize the role model. Subject to modifications.
Inhalt	Sustainable Development has become more and more influential since the famous Brundtland-report in shaping political, economic or individual decisions. However, it has also become a buzzword with many different meanings serving many different interests. Moreover, there are quite controversial theoretical approaches for conceptualizing sustainable development across different disciplines. Against this backdrop, this lecture provides a social science oriented basis for - understanding sustainable development as a new societal role model for human development; - conceptualizing sustainable development based on justice. Subject to modifications.
Literatur	Literature tba during lecture.
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	eine Wiederholung, bester Versuch zählt
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Regular attendance and active participation. Written examination: 13. June 24, during usual teaching time slot; room: lecture room tba. Repeat examination: 04.07.24, details tba.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	For MSD students (incl. MSD preparation semester), those of the IJDSD and the listed degree programs (see list of modules). Other students must do a master's degree within the Departement of Social Sciences/Faculty of Humanities and Social Sciences. NO bachelor students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of week five).
Bemerkungen	MSD 2017 Mandatory lecture for all. A different choice is only allowed for students, who have a) attended and accredited the same class for a former degree; b) attended and accredited a comparable class for a former degree. If a) or b) applies you have to register for a different course according to prior agreement with PD Dr. B. Bornemann. This lecture is offered by the MSD. PD Dr. B. Bornemann is an interim member of the Teaching Committee MSD and of the Dep. of Social Sciences, Faculty of Humanities and Social Sciences, University of Basel. Dr. M. Christen holds a teaching assignment. He is a team member of the Sustainability Research Group, of the Faculty of Humanities and Social Sciences, University of Basel.

Modul: Kernbereich Wirtschaftswissenschaften

43498-01 Kolloquium: Psychological Theory in Consumer Behavior 6 KP

Dozierende	**C. Miguel Brendl**
Zeit und Ort	Mo 14:15-18:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S14 HG.32
Datum	26.02.2024
Intervall	14-täglich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Business Field: Marketing (Masterstudium: Business and Technology) Modul: Core Courses in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in Business and Economics (Masterstudium: Wirtschaftswissenschaften)

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	Modul: Specific Electives in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	• Obtaining an overview of fundamental psychological concepts in preference formation and choice. • Learning about the nature of theory construction and theory testing by means of experiments (heavily emphasized).
Inhalt	The course is appropriate for master's students in business, economics, or psychology, as well as for PhD students. The course focuses on psychological theory that is the basis for theories in consumer behavior. It has a methodological emphasis by teaching you how to conduct research using experiments. This course is a precondition for writing a master's thesis in behavioral marketing. But beyond that it is of particular interest if you want to explore what academic research is like. -For those without a prior degree in psychology the course offers a crash course in psychology as it relates to preferences (attitudes, feelings, evaluative judgments, choice). -For anyone interested in behavioral sciences the course offers the opportunity to practice an important skill: deriving behavioral predictions from theories. This skill goes beyond merely describing a theory and is important for anyone who wants to actually use a theory, be it for research or application. During the seminar we discuss your homework solutions to a set of exercises. From this discussion we draw inferences about theory itself and about designing experiments. The entire course is in English.
Literatur	Last year's syllabus is posted here: https://adam.unibas.ch/goto_adam_crs_480685.html
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An- und Abmelden: Dozierende
Hinweise zur Leistungsüberprüfung	Every session your homework consists of readings and exercises where make predictions for an experiment. I randomly draw some students to present their exercise solutions, which we then discuss. Given this format, it is necessary that you have completed the assigned readings and exercises before each session, and that you are present during each session. A detailed write-up of an exercise will definitely be part of the grade. The following might also contribute: your contributions to the class discussion; the presentations you give.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	If you are a master's student at the business and economics faculty in Basel, you need to have taken "Behavioral Science" and "Consumer Behavior: Theoretical Foundations". If you study elsewhere or are a PhD student, please contact me. A maximum of 20 students can enroll and in the past all those who fulfilled the course requirements were admitted. Should demand for the course surpass the available seats, we will emphasize the following for admissions: • Grades in the Kernfächer 62650-01 "Behavioral Science" and 12036 "Econometrics" or in equivalent courses if you come from another discipline.
Anmeldung zur Lehrveranstaltung	1. The number of participants is limited to 20. 2. Please apply for the course and the subsequent assignment via this link here https://adam.unibas.ch/goto.php?target=crs_1089742_rcodecd2VXxuTFw&client_id=adam by February 6th, 2024, 8 pm at the latest. Please make sure that you are registered for the spring semester and have paid the semester fees before you apply for this course.

3. You will be notified by February 16th, 2024, if you have been admitted to the Kolloquium.

4. A deregistration is possible until February 23, 2024, 8pm by Email to belegungstorno-wwz-at-unibas.ch. Please state the course number, title and your matriculation number!

5. Please note that your registration will be entered in your Online Services only after the official deadline of the course registration period, i.e. after 25.03.2024.

6. The following applies to everyone: enrollment = registration for the exam/assignment! In case of non-participation after registration it will be noted as "nicht erschienen" in the transcript.

Bemerkungen

To take the course you have to attend as of Session 1. Note that there will be homework in preparation of Session 1.

This course is a pre-requisite if you want to write a master's thesis in behavioral marketing. Details are posted here: https://wwz.unibas.ch/fileadmin/user_upload/wwz/00_Professuren/Brendl_Marketing/2021_07_19_MBrendl_Requirements_Master_s_Thesis_in_Behavioral_Marketing.pdf

The course will be taught on site.

67432-01 Seminar: Sustainability in Banking and Finance 6 KP

Dozierende	**Jacqueline Henn** Paolo Vanini
Zeit und Ort	Mo 10:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S14 HG.32
Datum	26.02.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Preparation Master's Thesis in Finance and Money (Masterstudium: Finance and Money) Modul: Research Design in Business and Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Research Design in Finance, Controlling, Banking (Masterstudium: Wirtschaftswissenschaften) Modul: Research Design in Monetary Economics and Financial Markets (Masterstudium: Wirtschaftswissenschaften) Modul: Seminararbeiten (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies)
Inhalt	Das Thema Nachhaltigkeit ist in den letzten 30 Jahren immer wieder nach speziellen Ereignissen im Banken und Finanzbereich aufgetaucht und nach kurzer Zeit wieder in den Hintergrund getreten. Seit einigen wenigen Jahren hat sich das Thema aber als fester Trend in der Finanzindustrie festgesetzt: Kunden aller Kategorien verlangen nach nachhaltigen Lösungen und erwarten, dass die Banken selber nachhaltig wirtschaften. Die sichtbaren Ereignisse des Klimawandels dürfen ausschlaggebend für diese nachhaltige Verhaltensänderung sein. Zur Zeit arbeiten die die Banken, Regulatoren und Versicherungen hektisch an nachhaltigen Lösungen; sei es für die Kunden, für sich selber oder den Finanzplatz. Das Thema ist komplex und in mancher Hinsicht neuartig für die Finanzwelt. Die strategische Zielsetzung einer Bank im Jahr 2040 das 1.5 Grad Klimaszenario zu erreichen erfordert beispielsweise eine Umsetzung von Massnahmen in einem unüblichen langem Zeithorizont. Wie definiert man nachhaltige Anlagen für Kunden ist eine weitere Herausforderung. Kann man sich dabei auf die Nachhaltigkeitsratings von MSCI, S&P oder Refinitiv in der ESG Methodologie abstützen – ist diese regulatorisch konform, wie geht die Bank mit ihren eigenen illiquiden Assets wie den Bankgebäuden um? Im Seminar werden wir Arbeiten vergeben, welche unterschiedliche Aspekte des Themas betreffen und mit unterschiedlichen Methoden der Statistik, Data Science oder Finance bearbeitet werden müssen.
Literatur	Wird für die spezifischen Themen bekannt gegeben.

Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Seminarleistung
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	An- und Abmelden: Fakultät
Hinweise zur Leistungsüberprüfung	Die Leisungsüberprüfung erfolgt in Form einer schriftlichen Seminararbeit (60%) und einer Präsentation (40%). Es wird erwartet, dass sich alle Teilnehmenden an der Diskussion beteiligen.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Deutsch
Teilnahmevoraussetzungen	Abgeschlossenes Bachelorstudium. Ausserdem gilt folgende seminarspezifische Priorisierung: 1. Die Fundamentalsveranstaltung 12036 Econometrics muss mit mind. 4.5 bestanden sein. 2. Anzahl Veranstaltungen und Noten in der Vertiefung Finance, Controlling and Banking Die weiteren allgemeinen Zuteilungskriterien für die Masterseminare sind hier zu finden: https://wwz.unibas.ch/de/studium/master/masterseminare/
Anmeldung zur Lehrveranstaltung	Die Anmeldung für das Seminar erfolgt zentral für alle Seminare bis spätestens 08. Januar 2024, 24.00 Uhr. Den Link zum Online-Anmeldeformular sowie weitere Informationen dazu finden Sie hier: https://wwz.unibas.ch/de/studium/master/masterseminare/ Die Anmeldung ist verbindlich. Bei Nicht-Teilnahme nach erfolgter Anmeldung wird im Leistungsausweis "nicht erschienen" , bei Abbruch nach Themenzuteilung eine "1.0" ausgewiesen.

65943-01 Vorlesung: Advanced Macroeconomics — 6 KP

Dozierende	**Sarah Lein**
Zeit und Ort	Mo 14:15-18:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S15 HG.31
Datum	04.03.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Grundlagenmodul: Advanced Topics in Economics (Masterstudium: International and Monetary Economics) Modul: Core Courses in Business and Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Core Courses in Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Methoden der Wirtschaftswissenschaften (Masterstudium: European Global Studies) Modul: Specific Electives in Business and Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften)
Lernziele	This course provides students with the technical toolbox to study modern macroeconomic models and to conduct simple policy evaluations.
Inhalt	The course "Advanced Macroeconomics" focuses on modern theories of macroeconomic fluctuations. It is built explicitly on microeconomic foundations, by considering the decision making process of the microeconomic agents, namely firms and households. These microeconomic units are then aggregated to study their interactions and macroeconomic outcomes. After a preliminary introduction to the Solow model in continuous time, which focuses mainly on long-term growth and production, we will develop a simple Ramsey model that also considers household consumption/saving decisions. To delve into business cycle dynamics and transition to short-run macroeconomics, we will then explore the so-called RBC model. In this model, we introduce stochastic elements, and agents face uncertainty about the future. We will also scrutinize two crucial components of aggregate demand in these "real" models, namely consumption and investment. In the following lecture block, we will introduce nominal rigidities, i.e., sticky prices, into the RBC model. This extension will enable us to examine, for example, monetary policy. Throughout the course, there will be exercise sessions designed to familiarize students with the practical applications of these models. This approach will allow them to build a foundational set of models that they can later use to explore more specific research

	questions. This lecture aims to equip students with an initial toolbox for modern macroeconomic analysis. Note: for students interested largely in long-run macroeconomics: more detailed and advanced long-run models are covered in 67962 «Long-run Macroeconomics: Growth theories» (R. Stelter).
Literatur	Textbook D. Romer, Advanced Macroeconomics, 5th edition. Additional literature will be announced in class (syllabus).
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Final exam (85%) and midterm quiz (15%). Final exam: 12.06.24; 10:15-11:45. WWZ Auditorium: A-H; WWZ S15: K-Z. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	While there are no formal prerequisites, it is strongly recommended that students take 18545-01 Advanced Mathematics for Economists before the course.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!

10616-01 Vorlesung: Applied Machine Learning — 3 KP

Dozierende	**Dietmar Maringer**
Zeit und Ort	Do 14:15-18:00 Wirtschaftswissenschaftliche Fakultät, Grosses PC-Labor S18 HG.37
Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in Data Science and Computational Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Modul: Technology Field (Masterstudium: Business and Technology) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))

	Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	Solid understanding of key machine learning techniques, their advantages and limitations, and application skills.
Inhalt	To counteract the "data-rich, information-poor" ("DRIP") syndrome, this course covers concepts for data analysis and techniques for finding structure in data and, ideally, extracting information. Typical applications are classification, clustering and dimension reduction. Methods include nonlinear methods; perceptrons and neural networks; support vector machines; and tree-, kernel- or rule-based methods, and generative methods. In addition to theoretical presentations, numerous practical applications are carried out. Special attention is paid to data preprocessing, model validation, and model selection.
Literatur	Lecture material will be provided. There is no designated textbook, but quite a few books participants might find helpful. These include (in alphabetical order): *) E. Alpaydin, Introduction to Machine Learning, 4th ed., MIT Press 2020. *) B.S. Everitt and T. Hothorn. An Introduction to Applied Multivariate Analysis with R. Springer, 2011. *) B.S. Everitt, S. Landau, M. Leese, and D. Stahl. Cluster Analysis. Wiley, 2011. *) T. Hastie, R. Tibshirani, J. Friedman, The Elements of Statistical Learning: Data Mining, Inference, and Prediction, 2nd ed., Springer 2009. *) K.P. Murphy, Machine Learning: A Probabilistic Perspective, The MIT Press, 2012. *) A.C. Rencher. Methods of Multivariate Analysis. Wiley, 3rd edition, 2012. *) I.H. Witten, E. Frank, M.A. Hall, Data Mining: Practical Machine Learning Tools and Techniques, 4th ed., Elsevier 2016. Specific recommendations and additional literature to be announced during the course.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Combination of active participation, assignment(s) and final exam. written exam: 30.04.24; 12:30-13:30. WWz S15: A-Z. Late deregistration is not possible for this course. If you do not wish to take part in the exam, please cancel your registration within the registration deadline.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	*) completed BA in Business and Economics *) 12036 Econometrics *) 58989 Computing for Business and Economics or equivalent
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	Throughout the course, we will use Python to implement methods and concepts, and perform experiments. Participants are expected to have at least a basic knowledge of programming as taught in "58989 Computing for Business and Economics".

50877-01 Vorlesung: Economics of Global Health 3 KP

Dozierende	**Günther Fink**
Zeit und Ort	Mo 12:15-14:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S14 HG.32 Mi 14:15-16:00 Wirtschaftswissenschaftliche Fakultät, Auditorium
Datum	08.04.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Policy Field: Health and Labor (Masterstudium: Economics and Public Policy) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Vertiefungsmodul Global Europe: Global Ageing and Health (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Public Health and Social Life (MSG - African Studies)
Inhalt	This class examines health issues in developing countries from the standpoint of applied economics. Specific topics include: (1) identifying the bi-directional relationship between health and economic wellbeing; (2) understanding key economic challenges to improving individual and global health; and (3) recognizing differences between optimal health decisions from an individual, national and global perspective. We will examine the empirical evidence in support of interventions affecting health, including the success and failure of interventions that target infant mortality, diarrhea, worms, AIDS, and malaria. We will also investigate the role of health insurance as well as different approaches to deliver health care in resource-constrained settings.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: Studiendekanat
Hinweise zur Leistungsüberprüfung	Class Structure: This class is centered around two readings from the health and economics literature purposely chosen for each session. The instructor will go over the readings in class, present key theoretical and empirical elements and expects students to challenge the methods and findings of the papers presented. Grading: The grade of this class has the following two components: Class participation: 50 percent Paper presentation: 50 percent Class participation: Students are expected to have read articles on the reading list prior to class, and to be able to 1) answer specific questions about these articles and 2) critically assess the general approach and message of the articles discussed. Paper presentation: In the first week of the course all students need to pick a paper from the course reading list. Students need to study this paper in detail and present the main insights to the class together with a critical review of the paper's strengths and weaknesses.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Familiarity with intermediate economic theory and econometrics—including consumer theory, income and substitution effects, producer theory, experimental design, instrumental variables, and difference-in-differences estimation is assumed.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch).

Universität Basel

		Applies to everyone: Enrolment = Registration for the course and the exam! A deregistration is possible by email to belegungstorno-wwz-at-unibas.ch by April 24, 2024 at the latest, stating the course number, title and your matriculation number.
	Bemerkungen	Prof. Günther Fink is Associate Professor of Epidemiology and Household Economics at the University of Basel and Head of the Household Economics and Health Systems Research Unit at the Swiss Tropical and Public Health Institute. He holds a Ph.D. in economics from Bocconi University in Milan, Italy, as well as a Master's in applied economics from the University of Michigan.

62655-01 Vorlesung: Energy Economics 3 KP

Dozierende	**Hannes Weigt**
Zeit und Ort	Di 14:15-16:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S14 HG.32
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Policy Field: Competition and Regulation (Masterstudium: Economics and Public Policy) Modul: Policy Field: Environment and Energy (Masterstudium: Economics and Public Policy) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Vertiefungsmodul: Markets and Public Policy (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	The lecture aims to provide students with the opportunity to apply economic concepts within an applied field (i.e. energy markets). Students will learn how to investigate real-world settings, apply economic concepts to those settings and derive insights. The lecture is designed to be interactive and discussion based.
Inhalt	Within the lecture ‚Energy Economics' we will investigate current topics and trends of global energy markets; in particular non-electricity related topics (electricity markets are covered in a separate lecture). A particular focus lies on market functionalities, strategic company behavior, and interaction of market actors. Topics will cover different energy markets (e.g. crude oil and market power, natural gas supply in Europe and its relation to Russia) and ongoing market and system transitions (e.g. mobility, synthetic fuels/hydrogen).
Literatur	The lecture will build upon scientific papers, news reports and blog posts. All literature will be provided. Students are required to read about one paper per week.
Weblink	https://wwz.unibas.ch/de/energieoekonomie/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Performance will be assessed via homework assignments and a final written exam. written exam: 03.06.24; 10:15-11:45. WWZ Auditorium: A-Z. You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Background knowledge in energy economics is helpful but not required. The course builds upon microeconomic concepts, industrial organization, game theory, and different policy approaches from environmental economics and public policy.

Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	The course will be taught in class.

14255-01 + Vorlesung: Environmental Economics 3 KP

Dozierende	**Frank Christian Krysiak**
Zeit und Ort	Fr 10:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S15 HG.31
Datum	01.03.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Herbstsemester
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Core Courses in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Policy Field: Environment and Energy (Masterstudium: Economics and Public Policy) Modul: Specific Electives in Business and Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	The course will provide -) an overview over central topics in environmental economics and environmental policy; -) training in how to set up, analyze and interpret environmental economic models; -) the necessary concepts and tools to read and understand current research papers in environmental economics; -) competences for assessing current environmental policy and appreciating the problems raised by complications, such as missing cost/benefit information or strategic firm behavior.
Inhalt	This course addresses topics from current research in environmental economics. The focus is on designing environmental policy with applications to climate and energy policy. The course will cover three important elements of designing environmental policy: 1) The ability to cope with complications in the short run, such as missing information about costs and benefits, market power or imperfect compliance; 2) The influence of policy on technological change in the long run; 3) The evaluation of policy targets: How to set policy targets under uncertainty about costs and benefits. The course will commence with simple problems, as they are discussed in a typical BA course on environmental economics, and will progress to more complex settings found in many applications. We will discuss a range of policy instruments used in climate and energy policy and investigate how they need to be adjusted for being able to cope with real-world complexities. Most parts of the course will be based on environmental economic theory, that is, we will capture the essence of an environmental problem in a model and investigate potential solutions in this context. In addition, we will discuss several current Swiss and European issues of environmental policy.

In this course, active participation is essential. Students are expected to read one paper before each lecture and we will discuss the main argument made in the paper as well as applications and extensions in class.

Literatur	The course is based mostly on research papers. A reading list will be distributed at the start of the term. Students are required to read about one paper per week. In addition, we will use some (minor) parts of the text book A. Xepapadeas (1997), "Advanced Principles in Environmental Policy", Edward Elgar. (The book is available in the library; due to its price, I do not recommend to buy it.) Students who are not yet familiar with basic concepts of environmental economics, might benefit from preparing for this course by studying the environmental economics part of R. Perman, Y. Ma, J. McGilvray und M. Common (2003), "Natural Resource and Environmental Economics", 3rd oder 4th Edition, Pearson Education.
Weblink	https://wwz.unibas.ch/de/umweltoekonomie/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Performance will be assessed via a written exam at the end of the term. written exam: 31.05.24; 10:15-11:45. WWZ S15: A-Z. You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Advanced students from other programs are admitted, if they have sufficient training in microeconomics and mathematics. Some background in environmental economics is recommended but not required.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!

17691-01 Vorlesung: International Trade, Resources and the Environment — 3 KP

Dozierende	M. Scott Taylor
Zeit und Ort	Mo 08:15-10:00 Wirtschaftswissenschaftliche Fakultät, Auditorium
Datum	06.05.2024
Intervall	Block
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics

	(Masterstudium: International and Monetary Economics) Vertiefungsmodul Global Europe: Handel und Unternehmen in der Globalisierung (Masterstudium: European Global Studies) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	More information (including outline) can be found on: https://wwz.unibas.ch/en/faculty/people/weder-rolf-international-trade-and-european-integration/teaching/
Inhalt	This course investigates the linkages between international trade and the environment from both a theoretical and empirical viewpoint. It investigates the theoretical links between international trade and sustainability in two ways by studying the link between trade and resource use on the one hand and trade and industrial pollution on the other. It then reviews the empirical evidence linking trade to environmental outcomes using the theory as a guide to evaluate and critique the literature.
Literatur	Some of the material covered are chapters in preparation for a new book “International Trade and Resource Use” and will be made available to students in pdf format. Most of it, however, is based on a selection of articles published in international journals.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: Studiendekanat
Hinweise zur Leistungsüberprüfung	There will be one final exam and a paper requirement. The exam date will be established in the first lecture. The paper should be a critical analysis of a scholarly or popular article discussing some aspect of international trade’s impact on the environment. The paper must use, at least implicitly, the tools and logic developed in the course. The date of the exam as well as the deadline of the paper will be posted and mentioned in the first class. Exam date: 17.6.24; 10:15-11:45. WWZ S15: A-Z. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Required: A good understanding of the principles of economics and of microeconomics. Recommended: Advanced International Trade and Business Environmental and Resource Economics
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). A deregistration is possible by email to belegungstorno-wwz-at-unibas.ch by May 8, 2024 at the latest, stating the course number, title and your matriculation number. Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	The course will be taught "in - class". You should have a look at some of the literature discussed in class in advance of the course to

be prepared for the course. The material will be accessible on ADAM approximately three weeks in advance of the start of the course. Students will be able to access the reading material after registration.

The course is part of the "Guestprofessorship in Globalization - Internationalization of the Economy"

60335-01 + Vorlesung: Introduction to Corporate Responsibility 3 KP

Dozierende	**Georg von Schnurbein**
Zeit und Ort	Di 14:15-16:00 Wirtschaftswissenschaftliche Fakultät, Auditorium
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Business Field: Strategy and Organization (Masterstudium: Business and Technology) Modul: Core Courses in Labor Economics, Human Resources and Organization (Masterstudium: Wirtschaftswissenschaften) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in Business and Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Labor Economics, Human Resources and Organization (Masterstudium: Wirtschaftswissenschaften) Vertiefungsmodul Global Europe: Handel und Unternehmen in der Globalisierung (Masterstudium: European Global Studies) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: Labour Economics, Human Resources and Organization (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	1. students are familiar with the basic theoretical approaches to corporate responsibility, including the development of corporate social responsibility, corporate sustainability and corporate citizenship. 2. students are familiar with the location of corporate responsibility in the strategic and organizational implementation in the company. 3. students are able to develop and critically assess corporate responsibility activities themselves 4. students get to know different areas of implementation (supply chain, human resources/ team building, corporate philanthropy) by means of case studies.
Inhalt	It is not only since the Sustainable Development Goals (SDGs) that companies have been called upon to better perceive their social responsibility or to make it recognizable. While at the beginning of CSR research there was still talk of voluntary services and "icing on the cake", today corporate responsibility is an integral part of corporate activities with great strategic importance. When bidding for public contracts, in the financial markets and in the business media, a company's CR plays an increasingly important role. In this lecture, students learn the theoretical basics and receive an introduction to practical implementation.
Literatur	basic literature: Haski-Leventhal, D.: Strategic Corporate Responsibility, Sage, 2018
Weblink	https://adam.unibas.ch/goto_adam_crs_1078447.html
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Written exam: 07.06.24; 16:40-17:40. DSBG Sporthalle: A-Z. For this exam, you will receive additional information and your admission times by email three to four days before the exam date. You should be on site at least 20 minutes before the start of the exam. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.

Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!

16036-01 + Vorlesung: Microeconometrics and Statistical Learning 3 KP

Dozierende	**Christian Kleiber**
Zeit und Ort	Mi 10:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S15 HG.31
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Schadenversicherung (Masterstudium: Actuarial Science) Modul: Specific Electives in Data Science and Computational Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Modul: Statistik und Computational Science (Masterstudium: Actuarial Science) Modul: Technology Field (Masterstudium: Business and Technology) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Inhalt	Introductory econometrics courses mainly cover the linear regression model, which is suitable for modelling response variables that may be considered as continuous. Also, the number of covariates is typically modest. The present course has two parts: * In the first part, the course will cover classical (nonlinear) regression models for applications where response variables are naturally discrete, e.g. binary or count data. It will use the framework of generalized linear models (GLMs), which provides a unified approach to models such as logit, probit and Poisson regression. Inference will be likelihood based. * In the second part, there will be an introduction to the recent literature on statistical learning (aka machine learning), specifically to the notion of regularisation, with LASSO and ridge as the main examples, and mainly in the setting of linear regression. If time permits there will also be material on finite mixture models and/or generalized additive models (GAMs). Remarks: * All course materials are on OLAT. * Empirical illustrations may include data from health economics, insurance, or labor

	economics, among further sources. The course will make use of the R language for statistical computing and graphics, hence basic knowledge of this software (including data import, running regressions) is expected. * In order to make room for further (regression) models, there will at most be a brief review of likelihood methods, possibly offered in digital form. Participants are expected to be familiar with these methods at the level of the compulsory MSc level Econometrics course.
Literatur	Main references: Cameron AC, Trivedi PK (2005). Microeconometrics, Cambridge Univ. Press. James G, Witten D, Hastie T, Tibshirani R (2021). An Introduction to Statistical Learning, 2nd ed. New York: Springer. [available in electronic form via the university library!] Winkelmann R, Boes S (2009). Analysis of Microdata, 2nd ed, Springer. Further (topic-specific) references will be indicated in the relevant contexts.
Weblink	https://wwz.unibas.ch/de/oekonometrieundstatistik/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Notes for the Assessment: Written exam: 17.06.24; 16:10-17:40. DSBG: Sporthalle: A-Z. For this exam, you will receive additional information and your admission times by email three to four days before the exam date. You should be on site at least 20 minutes before the start of the exam. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ In addition, there will be several assignments, accounting for up to 30% of the overall grade. For the assignments, students may work in groups of two. Depending on the number of students, the start of the exam may be moved forward or backward for 15 minutes. Exam rooms and start times will be published until 30.05.24. You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Prerequisites: * Completed Bachelor's degree (for students from Master's programmes of the Faculty of Business and Economics). * Introduction to Econometrics [BA] (for students from other departments: regression basics). * Econometrics [MSc] (for students from other departments: a second course in statistics, notably covering likelihood methods).
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	All course materials are on OLAT and not on ADAM!

60336-01 + Vorlesung: Population and Economic Growth 3 KP

Dozierende	**Robert Stelter**

Zeit und Ort	Mo 08:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S14 HG.32
Datum	15.04.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Wahlbereich (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	1. Basic skills in discrete time general equilibrium models, 2. Malthusian epoch, 3. Unified growth theory
Inhalt	After centuries of economic and demographic stagnation, the Western economies experienced the take-off of modern growth. At roughly the same time, populations underwent a demographic transition. This lecture focuses on the interplay between economic and demographic dynamics in order to examine important epochs in human history. First, we recall ideas from family economics and discrete time general equilibrium models. We then examine the Malthusian epoch - the era of stagnation in population size and income. Finally, we turn our attention to the transition from stagnation during the Malthusian epoch to sustained growth in a unique framework: the unified theories of economic growth. Based on this framework, we discuss the role of population in the transition to modern growth.
Literatur	De la Croix, D. & MICHEL, P. (2002). A theory of economic growth: dynamics and policy in overlapping generations. Cambridge University Press. Galor, O. (2011). Unified growth theory. Princeton University Press.
Weblink	https://wwz.unibas.ch/de/peopleandareas/quantitative-economic-history/cliometrics/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: Studiendekanat
Hinweise zur Leistungsüberprüfung	Assignments and final Examination. Final Examination: 27.05.24; 08:45-10:15.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Bachelor degree in economics (or an equivalent degree), good command English
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam! A deregistration is possible by email to belegungstorno-wwz-at-unibas.ch by April 24, 2024 at the latest, stating the course number, title and your matriculation number.
Bemerkungen	The course will be taught "in class".

63593-01 Vorlesung mit Übungen: Methods in Policy Impact Assessment 3 KP

Dozierende	Robin Argueyrolles **Ruth Delzeit**
Zeit und Ort	Mi 14:15-16:00 Geographie, Seminarraum EG 0-09
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Geowissenschaften

Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Landscape Systems (Masterstudium: Geowissenschaften) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Geographische Methoden- und Forschungskompetenz (MSF - Geographie) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Interdisciplinary and Applied African Studies (MSG - African Studies)
Lernziele	Know the different phases of policy evaluation; Have knowledge about the usability and limitation of models in policy evaluation; Work with Computable general equilibrium (CGE) and agent-based models; Have basic knowledge of GAMS
Inhalt	The lecture consists of one hour of theoretical background and one hour of exercises. In the theory part, the different instruments and phases of policy evaluation are discussed. In the exercise, students learn to use models for ex-ante policy evaluation. For this reason, students will also get acquainted to the programming language GAMS.
Literatur	Burfisher, Mary E. (2020). Introduction to computable general equilibrium models. 3rd edition. Cambridge university press
Weblink	https://duw.unibas.ch/de/forschungsgruppen/landnutzungsaenderungen/
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	The performance review takes place by graded exercises.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Some preliminary knowledge of programming is useful.
Bemerkungen	Compulsory attendance

Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften

57245-01 Kolloquium: Sustainability Science Research (social dimension) 1 KP

Dozierende	**Paul Burger**
Zeit und Ort	Do 16:15-18:00 Bernoullistrasse 14/16, Kleiner Seminarraum 02.001 Details tba.
Datum	14.03.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Changing Societies Lab (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	Participants have in-depth knowledge about thematic and methodological aspects of social science research on sustainability.
Inhalt	Based on the presentation of ongoing research projects (master's theses), students analyze and discuss thematic and methodological questions related to current disciplinary and interdisciplinary research on sustainability. The detailed program is set in the first session.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, active participation, oral presentations. Details according to information of lecturer.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Only for students of the MSD with focus area in social science and of the master in Changing Societies.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).

Bemerkungen	Mandatory for all MSD-students who have chosen the focus area in social sciences (credits are earned once for the module "Preparation Master's Thesis in Social Sciences" = no repeated course registration possible). Enrollment and presentation according to agreement with Prof. Dr. Burger. Dates/time: 14.03.24; 04. and 25.04.24; 16.05.24: 16:15-18:00h. This colloquium is offered by the MSD. Prof. Dr. em. P. Burger is the former head of the Sustainability Research Group, Dep. Social Sciences, Faculty of Humanities and Social Sciences.

49078-01 Kurs: Research Design Master's Thesis — 3 KP

Dozierende	Patricia Holm **Frank Christian Krysiak** Iljana Schubert
Zeit und Ort	Mo 08:15-10:00 Vesalianum, Seminarraum (O2.02)
Datum	26.02.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	The students - know how to prepare a research proposal for their master's thesis in a structured, systematic and scientific manner; - know how to identify a valuable research topic in the field of sustainable development, to develop a related research question directed to a contribution to the scientific debate as well as designing a research approach (e.g. choice of methods) directed to answering the research question; - are able to characterize intersections between their approach and other disciplines as well as intersections with non-academic fields (such as politics, business etc.); - are familiar with formal requirements for a master's thesis (correct citation, presentation of graphs, figures, results, plagiarism etc.).
Inhalt	Writing a master's thesis related to a topic of sustainability is the masterpiece of the MSD study program. Students are expected to use productively their acquired knowledge (in terms of methods and sustainability related content) for analyzing a specific topic. However, developing a research design that copes with scientific scrutiny and accuracy is by far not an easy endeavour. Questions like 'How can I find an interesting topic?' or 'According to which criteria should I decide to go for a specific method?' or - and most important – 'Why and how do I have to link my research design to the ongoing scientific discourse?' are waiting to be answered. This course is thought to support the students in developing their research proposal in a structured, systematic and scientific manner. Students get familiar with necessary elements of a master thesis: problem framing, introduction, background, aims, hypothesis, research questions, methods, results, discussion, reflection/contribution to the scientific debate etc. Students also learn how they can identify a valuable research topic in the field of sustainable development. Some elements are thereby generic, i.e. independent of a specific disciplinary perspective. Other elements are, to the contrary, highly dependent on the chosen disciplinary field. Other elements are concerned with capturing intersections between the field. Against this backdrop, the class will be jointly given by the three teachers at the beginning, when it comes to unfold the generic components. Subsequently the class will be split into three groups and the students will develop their research proposal along the specific requirements according to their own focus areas.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, required readings, presentation. Outline of master's thesis' research design according to information of lecturers.

Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Exclusively for MSD-students. Students of IJDSD may attend the course according to the agreement with MSD responsible contact person. No other students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).
Bemerkungen	Mandatory course for all students of MSD 2017 ("Preparation Master's Thesis" module). Students with focus area in natural science have to list this course in the learning agreement for the "Preparation Master's Thesis" module (template available on the website MSD/ downloads MSD 2017). For details see guidelines and medium-term syllabus. Plenary meetings for all participants on Mondays, 08:15 to 10:00 am on the following dates: 26.02.2024; 11.03.2024; 25.03.24, 15.04.24. Meetings in between in groups according to the announcements of responsible teaching member. This course is offered by the MSD: Prof. Dr. Patricia Holm and Frank Krysiak (lead) are members of the MSD teaching committee. Iljana Schubert is team member of the sustainability research group and holds a teaching assignment.

50267-01 Seminar: Current Topics in Social Science Based on Sustainability Research — 3 KP

Dozierende	**Annika Sohre**
Zeit und Ort	Mi 08:15-10:00 Bernoullistrasse 14/16, Kleiner Seminarraum 02.001
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	unregelmässig
Anbietende Organisationseinheit	Fachbereich Nachhaltigkeitsforschung
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	By the end of the semester the participants will have acquired competencies and skills necessary to disclose current topics of social science based sustainability research. Specifically, they will know how to set up systematic search strategies to find and delimitate relevant and current topics; how to elaborate the state of discussion in a given field; and how to specify knowledge gaps. Furthermore, they will learn how to summarize debates about current sustainability issues.
Inhalt	Sustainability research in the social sciences is a rapidly developing field that covers a broad range of debates within and across various disciplines and problem areas. This poses a huge challenge to keep track of “what is going on?”, to filter interesting topics and cope with the complexity of different contributions. Furthermore, there is a growing demand for social scientists to improve science communication, that is, condensing scientific results to comprehensible information, e.g. in the state-of-the-art section of a master thesis. In a lab setting, the students will systematically identify and engage with a current topic of social science-based sustainability research based on the method of systematic literature reviews. The students: - search and select current topics, and they further elaborate these topics in literature reviews; - discuss empirical, theoretical, methodological and practical issues concerning current topics; - present and discuss the developed topics orally and in written form.
Literatur	Tba during the seminar.
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren

Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, required readings, oral presentation, essay. Details according to information of lecturer.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Special course application required for ALL (for details see 'course application' or 'Anmeldung'): Limited number of participants (20); students of the MSD (incl. MSD preparation semester) and IJDSD have priority. If you study something different you must do a master's degree within the Department of Social Sciences/Faculty of Humanities and Social Sciences and may attend the seminar in case of vacancies. MSD 2017 Students who have chosen the focus area in natural sciences or in economics must have completed the 'Complementary Knowledge in Social Sciences' module (at least 8 CP).
Anmeldung zur Lehrveranstaltung	Please note entry requirements (for details see section "admission requirements". Mandatory application for ALL! Link open from 17.01.24/noon-06.02.24/midnight: https://adam.unibas.ch/goto_adam_crs_544052.html Login and application only possible with open link. Link guides to the ADAM website. Login button on top row right hand side of ADAM website. First emails with confirmation of participation will be sent out at the end of the first deadline. In case of vacancies the online application link remains open until 07.03.24/noon. Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).
Bemerkungen	Please note entry requirements and mandatory course application procedure (additional to registration on MOnA). MSD 2017 For students with focus area in social sciences the seminar is mandatory for the published module. Transfer of credit points to the FASR module (learning agreement) is only possible for students with focus area in natural sciences or in economics. This seminar is offered by MSD. Dr. A. Sohre is a Senior Researcher of the Sustainability Research Group, Dep. of Social Sciences, Faculty of Humanities and Social Sciences and head of the research network "Sustainable Future" (Univ. of Basel).

33426-01 Seminar: Quantitative Data Analysis in African Studies — 3 KP

Dozierende	**Elisio Macamo**
Zeit und Ort	Mi 10:15-12:00 Rheinsprung 21, Seminarraum 00.004
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Zentrum für Afrikastudien
Module	Modul: Methoden der Gesellschaftswissenschaften (Masterstudium: European Global Studies) Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Digital Humanities, Culture and Society (MSF - Digital Humanities) Modul: Methoden der Near & Middle Eastern Studies und der Gesellschaftswissenschaften (MSF - Near & Middle Eastern Studies) Modul: Erweiterung Gesellschaftswissenschaften M.A. (MSF - Politikwissenschaft) Modul: Methoden der Soziologie und der Gesellschaftswissenschaften: quantitativ (MSF - Soziologie) Modul: Research Skills (MSG - African Studies) Modul: Methods for Analyzing Changing Societies (MSG - Changing Societies: Migration –

	Conflicts – Resources) Modul: Transfer: Europa interdisziplinär (MSG - Europäische Geschichte in globaler Perspektive)
Lernziele	Students know - that “analysis” is above all an exercise in argumentation; - how to identify the logical structure of explanations in quantitative analysis; - how basic argument forms such as comparison and representativeness can be deployed in analysis; - how to avoid the pitfalls of faulty reasoning such as in “cause and effect”, “ignoring evidence” and “anticipation”; - how to deploy quantitative analytic tools in the context of Africa.
Inhalt	The aim of this course is to improve participants’ ability to read and critically engage with quantitative research reports. It assumes no advanced knowledge of mathematics and does not expect participants to be familiar with advanced statistical methods. The course will introduce participants to the logic of quantitative analysis by exploring fundamental aspects of the logic underlying it and in this way improving participants’ own analytical and critical skills. In preparation for the course, participants are required to not only read the recommended literature, but also identify a quantitative research report (article, book chapter, etc.), which they are expected to critically evaluate as part of their own evaluation for the course.
Literatur	Neuman, Lawrence, W. 2007: Basics of Social Research – Qualitative and Quantitative Approaches. Pearson Education. Boston (chapter 10). Kalof, Linda, Dan, Amy and Dietz, Thomas 2008: Essentials of Social Research. Open University Press. Maidenhead (chapter 3). Best, Joel 2001: Damned Lies and Statistics – Untangling numbers from the media, politicians, and activists. University of California Press. Berkeley. Browne, M. Neil and Keeley, Stuart M. 2007: Asking the Right Questions – A guide to critical thinking. Pearson Prentice Hall. New Jersey. Murphy, Robert P. Economists Should Be More Careful With Their Statistics. Here: https://www.econlib.org/library/Columns/y2018/Murphystatistics.html
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	Pass / Fail
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: nicht erforderlich
Hinweise zur Leistungsüberprüfung	In preparation for the course, participants are required to not only read the recommended literature, but also identify a quantitative research report (article, book chapter, etc), which they are expected to critically evaluate as part of their own evaluation for the course. The block course consists of morning sessions only except from tuesday. Participants must allow for sufficient time for daily assignments..
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch

Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften

49078-01 Kurs: Research Design Master’s Thesis 3 KP

Dozierende	Patricia Holm **Frank Christian Krysiak** Iljana Schubert
Zeit und Ort	Mo 08:15-10:00 Vesalianum, Seminarraum (O2.02)
Datum	26.02.2024
Intervall	unregelmässig
Angebotsmuster	Jedes Semester
Anbietende Organisationseinheit	Departement Umweltwissenschaften
Module	Modul: Vorbereitung Masterarbeit Gesellschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development)
Lernziele	The students - know how to prepare a research proposal for their master's thesis in a structured, systematic and scientific manner; - know how to identify a valuable research topic in the field of sustainable development, to develop a related research question directed to a contribution to the scientific debate as well as designing a research approach (e.g. choice of methods) directed to answering the research question;

- are able to characterize intersections between their approach and other disciplines as well as intersections with non-academic fields (such as politics, business etc.);
- are familiar with formal requirements for a master's thesis (correct citation, presentation of graphs, figures, results, plagiarism etc.).

Inhalt

Writing a master's thesis related to a topic of sustainability is the masterpiece of the MSD study program. Students are expected to use productively their acquired knowledge (in terms of methods and sustainability related content) for analyzing a specific topic. However, developing a research design that copes with scientific scrutiny and accuracy is by far not an easy endeavour. Questions like 'How can I find an interesting topic?' or 'According to which criteria should I decide to go for a specific method?' or - and most important – 'Why and how do I have to link my research design to the ongoing scientific discourse?' are waiting to be answered.
This course is thought to support the students in developing their research proposal in a structured, systematic and scientific manner. Students get familiar with necessary elements of a master thesis: problem framing, introduction, background, aims, hypothesis, research questions, methods, results, discussion, reflection/contribution to the scientific debate etc. Students also learn how they can identify a valuable research topic in the field of sustainable development. Some elements are thereby generic, i.e. independent of a specific disciplinary perspective. Other elements are, to the contrary, highly dependent on the chosen disciplinary field. Other elements are concerned with capturing intersections between the field.

Against this backdrop, the class will be jointly given by the three teachers at the beginning, when it comes to unfold the generic components. Subsequently the class will be split into three groups and the students will develop their research proposal along the specific requirements according to their own focus areas.

Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Compulsory attendance in presence, required readings, presentation. Outline of master's thesis' research design according to information of lecturers.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Exclusively for MSD-students. Students of IJDSD may attend the course according to the agreement with MSD responsible contact person. No other students admitted.
Anmeldung zur Lehrveranstaltung	Course enrollment on MOnA should be completed by the beginning of the teaching period (withdrawal possible until Monday of teaching week five).

Bemerkungen

Mandatory course for all students of MSD 2017 ("Preparation Master's Thesis" module). Students with focus area in natural science have to list this course in the learning agreement for the "Preparation Master's Thesis" module (template available on the website MSD/ downloads MSD 2017). For details see guidelines and medium-term syllabus.

Plenary meetings for all participants on Mondays, 08:15 to 10:00 am on the following dates: 26.02.2024; 11.03.2024; 25.03.24, 15.04.24.

Meetings in between in groups according to the announcements of responsible teaching member.

This course is offered by the MSD: Prof. Dr. Patricia Holm and Frank Krysiak (lead) are members of the MSD teaching committee. Iljana Schubert is team member of the sustainability research group and holds a teaching assignment.

10616-01 Vorlesung: Applied Machine Learning — 3 KP

Dozierende	**Dietmar Maringer**
Zeit und Ort	Do 14:15-18:00 Wirtschaftswissenschaftliche Fakultät, Grosses PC-Labor S18 HG.37

Universität Basel

Datum	29.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in Data Science and Computational Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Modul: Technology Field (Masterstudium: Business and Technology) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	Solid understanding of key machine learning techniques, their advantages and limitations, and application skills.
Inhalt	To counteract the "data-rich, information-poor" ("DRIP") syndrome, this course covers concepts for data analysis and techniques for finding structure in data and, ideally, extracting information. Typical applications are classification, clustering and dimension reduction. Methods include nonlinear methods; perceptrons and neural networks; support vector machines; and tree-, kernel- or rule-based methods, and generative methods. In addition to theoretical presentations, numerous practical applications are carried out. Special attention is paid to data preprocessing, model validation, and model selection.
Literatur	Lecture material will be provided. There is no designated textbook, but quite a few books participants might find helpful. These include (in alphabetical order): *) E. Alpaydin, Introduction to Machine Learning, 4th ed., MIT Press 2020. *) B.S. Everitt and T. Hothorn. An Introduction to Applied Multivariate Analysis with R. Springer, 2011. *) B.S. Everitt, S. Landau, M. Leese, and D. Stahl. Cluster Analysis. Wiley, 2011. *) T. Hastie, R. Tibshirani, J. Friedman, The Elements of Statistical Learning: Data Mining, Inference, and Prediction, 2nd ed., Springer 2009. *) K.P. Murphy, Machine Learning: A Probabilistic Perspective, The MIT Press, 2012. *) A.C. Rencher. Methods of Multivariate Analysis. Wiley, 3rd edition, 2012. *) I.H. Witten, E. Frank, M.A. Hall, Data Mining: Practical Machine Learning Tools and Techniques, 4th ed., Elsevier 2016. Specific recommendations and additional literature to be announced during the course.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Combination of active participation, assignment(s) and final exam. written exam: 30.04.24; 12:30-13:30. WWz S15: A-Z. Late deregistration is not possible for this course. If you do not wish to take part in the exam, please cancel your registration within the registration deadline.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	*) completed BA in Business and Economics *) 12036 Econometrics *) 58989 Computing for Business and Economics or equivalent

Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	Throughout the course, we will use Python to implement methods and concepts, and perform experiments. Participants are expected to have at least a basic knowledge of programming as taught in "58989 Computing for Business and Economics".

14255-01 + Vorlesung: Environmental Economics 3 KP

Dozierende	**Frank Christian Krysiak**
Zeit und Ort	Fr 10:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S15 HG.31
Datum	01.03.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Herbstsemester
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Core Courses in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Policy Field: Environment and Energy (Masterstudium: Economics and Public Policy) Modul: Specific Electives in Business and Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	The course will provide -) an overview over central topics in environmental economics and environmental policy; -) training in how to set up, analyze and interpret environmental economic models; -) the necessary concepts and tools to read and understand current research papers in environmental economics; -) competences for assessing current environmental policy and appreciating the problems raised by complications, such as missing cost/benefit information or strategic firm behavior.
Inhalt	This course addresses topics from current research in environmental economics. The focus is on designing environmental policy with applications to climate and energy policy. The course will cover three important elements of designing environmental policy: 1) The ability to cope with complications in the short run, such as missing information about costs and benefits, market power or imperfect compliance; 2) The influence of policy on technological change in the long run; 3) The evaluation of policy targets: How to set policy targets under uncertainty about costs and benefits. The course will commence with simple problems, as they are discussed in a typical BA course on environmental economics, and will progress to more complex settings found in many applications. We will discuss a range of policy instruments used in climate and energy policy and investigate how they need to be adjusted for being able to cope with real-world complexities. Most parts of the course will be based on environmental economic theory, that is, we will capture the essence of an environmental problem in a model and investigate potential solutions in this context. In addition, we will discuss several current Swiss and European issues

of environmental policy.

In this course, active participation is essential. Students are expected to read one paper before each lecture and we will discuss the main argument made in the paper as well as applications and extensions in class.

Literatur	The course is based mostly on research papers. A reading list will be distributed at the start of the term. Students are required to read about one paper per week. In addition, we will use some (minor) parts of the text book A. Xepapadeas (1997), "Advanced Principles in Environmental Policy", Edward Elgar. (The book is available in the library; due to its price, I do not recommend to buy it.) Students who are not yet familiar with basic concepts of environmental economics, might benefit from preparing for this course by studying the environmental economics part of R. Perman, Y. Ma, J. McGilvray und M. Common (2003), "Natural Resource and Environmental Economics", 3rd oder 4th Edition, Pearson Education.
Weblink	https://wwz.unibas.ch/de/umweltoekonomie/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Performance will be assessed via a written exam at the end of the term. written exam: 31.05.24; 10:15-11:45. WWZ S15: A-Z. You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Advanced students from other programs are admitted, if they have sufficient training in microeconomics and mathematics. Some background in environmental economics is recommended but not required.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!

17691-01 Vorlesung: International Trade, Resources and the Environment — 3 KP

Dozierende	M. Scott Taylor
Zeit und Ort	Mo 08:15-10:00 Wirtschaftswissenschaftliche Fakultät, Auditorium
Datum	06.05.2024
Intervall	Block
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable

	Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul Global Europe: Handel und Unternehmen in der Globalisierung (Masterstudium: European Global Studies) Vertiefungsmodul Global Europe: Umwelt und Nachhaltigkeit (Masterstudium: European Global Studies) Vertiefungsmodul: International Trade, Growth and the Environment (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Fields: Governance and Politics (MSG - African Studies) Modul: Resources and Sustainability (MSG - Changing Societies: Migration – Conflicts – Resources)
Lernziele	More information (including outline) can be found on: https://wwz.unibas.ch/en/faculty/people/weder-rolf-international-trade-and-european-integration/teaching/
Inhalt	This course investigates the linkages between international trade and the environment from both a theoretical and empirical viewpoint. It investigates the theoretical links between international trade and sustainability in two ways by studying the link between trade and resource use on the one hand and trade and industrial pollution on the other. It then reviews the empirical evidence linking trade to environmental outcomes using the theory as a guide to evaluate and critique the literature.
Literatur	Some of the material covered are chapters in preparation for a new book “International Trade and Resource Use” and will be made available to students in pdf format. Most of it, however, is based on a selection of articles published in international journals.
Weblink	https://adam.unibas.ch
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anmelden: Belegen; Abmelden: Studiendekanat
Hinweise zur Leistungsüberprüfung	There will be one final exam and a paper requirement. The exam date will be established in the first lecture. The paper should be a critical analysis of a scholarly or popular article discussing some aspect of international trade’s impact on the environment. The paper must use, at least implicitly, the tools and logic developed in the course. The date of the exam as well as the deadline of the paper will be posted and mentioned in the first class. Exam date: 17.6.24; 10:15-11:45. WWZ S15: A-Z. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Required: A good understanding of the principles of economics and of microeconomics. Recommended: Advanced International Trade and Business Environmental and Resource Economics
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). A deregistration is possible by email to belegungstorno-wwz-at-unibas.ch by May 8, 2024 at the latest, stating the course number, title and your matriculation number. Applies to everyone: Enrolment = Registration for the course and the exam!

Bemerkungen	The course will be taught "in - class". You should have a look at some of the literature discussed in class in advance of the course to be prepared for the course. The material will be accessible on ADAM approximately three weeks in advance of the start of the course. Students will be able to access the reading material after registration. The course is part of the "Guestprofessorship in Globalization - Internationalization of the Economy"

16036-01 + Vorlesung: Microeconometrics and Statistical Learning 3 KP

Dozierende	**Christian Kleiber**
Zeit und Ort	Mi 10:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S15 HG.31
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Schadenversicherung (Masterstudium: Actuarial Science) Modul: Specific Electives in Data Science and Computational Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften) Modul: Statistik und Computational Science (Masterstudium: Actuarial Science) Modul: Technology Field (Masterstudium: Business and Technology) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul: Marketing and Strategic Management (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021)) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Inhalt	Introductory econometrics courses mainly cover the linear regression model, which is suitable for modelling response variables that may be considered as continuous. Also, the number of covariates is typically modest. The present course has two parts: * In the first part, the course will cover classical (nonlinear) regression models for applications where response variables are naturally discrete, e.g. binary or count data. It will use the framework of generalized linear models (GLMs), which provides a unified approach to models such as logit, probit and Poisson regression. Inference will be likelihood based. * In the second part, there will be an introduction to the recent literature on statistical learning (aka machine learning), specifically to the notion of regularisation, with LASSO and ridge as the main examples, and mainly in the setting of linear regression. If time permits there will also be material on finite mixture models and/or generalized additive models (GAMs). Remarks: * All course materials are on OLAT. * Empirical illustrations may include data from health economics, insurance, or labor economics, among further sources. The course will make use of the R language for statistical computing and graphics, hence basic knowledge of this software (including data import, running regressions) is expected. * In order to make room for further (regression) models, there will at most be a brief review of

	likelihood methods, possibly offered in digital form. Participants are expected to be familiar with these methods at the level of the compulsory MSc level Econometrics course.
Literatur	Main references: Cameron AC, Trivedi PK (2005). Microeconometrics, Cambridge Univ. Press. James G, Witten D, Hastie T, Tibshirani R (2021). An Introduction to Statistical Learning, 2nd ed. New York: Springer. [available in electronic form via the university library!] Winkelmann R, Boes S (2009). Analysis of Microdata, 2nd ed, Springer. Further (topic-specific) references will be indicated in the relevant contexts.
Weblink	https://wwz.unibas.ch/de/oekonometrieundstatistik/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Notes for the Assessment: Written exam: 17.06.24; 16:10-17:40. DSBG: Sporthalle: A-Z. For this exam, you will receive additional information and your admission times by email three to four days before the exam date. You should be on site at least 20 minutes before the start of the exam. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ In addition, there will be several assignments, accounting for up to 30% of the overall grade. For the assignments, students may work in groups of two. Depending on the number of students, the start of the exam may be moved forward or backward for 15 minutes. Exam rooms and start times will be published until 30.05.24. You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Prerequisites: * Completed Bachelor's degree (for students from Master's programmes of the Faculty of Business and Economics). * Introduction to Econometrics [BA] (for students from other departments: regression basics). * Econometrics [MSc] (for students from other departments: a second course in statistics, notably covering likelihood methods).
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	All course materials are on OLAT and not on ADAM!

31952-01 Vorlesung: Microeconometrics: Panel Data — 3 KP

Dozierende	**Kurt Schmidheiny**
Zeit und Ort	Di 10:15-12:00 Wirtschaftswissenschaftliche Fakultät, Seminarraum S16 HG.39
Datum	27.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ

Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Specific Electives in Data Science and Computational Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Specific Electives in Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Statistik und Computational Science (Masterstudium: Actuarial Science) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	This course discusses advanced tools for the econometric analysis of cross-section and panel data. Each of the tools will be implemented using standard statistical software (R and Stata) and real world data. Students will learn how to choose the adequate statistical method, discuss its identifying assumptions, correctly interpret its results and to translate them into economically meaningful answers.
Inhalt	Outline: 1. Basic Panel Data Models: RE and FE 2. Heterogeneous Treatment Effects and Potential Outcome Framework 3. Dynamic Effects: Event Studies and Distributed-Lags 4. Generalized Method of Moments 5. Dynamic Panel Data Models: Anderson-Hsiao, Arrelano-Bond, System GMM
Literatur	Readings: - Cameron, A. Colin and Pravin K. Trivedi (2005), Microeconometrics: Methods and Applications, Cambridge University Press - Wooldridge, Jeffrey M. (2010), Econometric Analysis of Cross Section and Panel Data, 2nd Edition, MIT Press.
Weblink	https://www.schmidheiny.name/teaching/unibas/microeconometrics2/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	written exam: 4.6.24; 08:15-09:45. WWZ Auditorium: A-Z.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Prerequisites: 12036 Econometrics, 41957 Advanced Econometrics
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!

62659-01 Vorlesung: Numerical Methods and Optimization — 3 KP

Dozierende	**Hannes Weigt**
Zeit und Ort	Mi 12:15-14:00 Wirtschaftswissenschaftliche Fakultät, Auditorium
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Core Courses in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Fundamentals in Economics (Masterstudium: Economics and Public Policy) Modul: Risiko-Analyse (Masterstudium: Actuarial Science) Modul: Specific Electives in Business and Economics (Masterstudium: Wirtschaftswissenschaften)

Universität Basel

	Modul: Specific Electives in International Business, Trade and the Environment (Masterstudium: Wirtschaftswissenschaften) Modul: Statistik und Computational Science (Masterstudium: Actuarial Science) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	Overall, the purpose of this course is to enhance students' abilities to translate economic questions into a formal mathematical language and in turn understand the mathematical properties and results of models from an economic perspective. Consequently, the purpose of the course is not to provide students with detailed knowledge on specific computational approaches and algorithms.
Inhalt	Building upon the economic basics from the core courses, students learn how to transfer economic problems and questions into mathematical models which can in turn be solved using computational methods. The lecture will focus on economic understanding and interpretation of models with examples from the topical fields of the MEPP. In particular, students will learn what economic modeling entails, how to develop basic model formulations for a given research question, the purpose of different model approaches, and the limits of modeling. In addition, students will learn how to implement and solve simple numerical models. To this end the lecture will us both, generic economic exercise examples to showcase the basic elements of modeling as well as test models within the fields of the MEEP which students are tasked to interpret and extend. Thereby students will be able to experience how modeling can be applied to understand economic structures and dynamics and how numerical methods can help to solve and quantify specific questions. The modeling elements of the lecture will focus on single agent and system perspectives (optimization models) as well as actor interactions (equilibrium models), which are recurring themes throughout economics.
Literatur	Any needed literature will be provided in the lecture.
Weblink	https://wwz.unibas.ch/de/energieoekonomie/lehre/
Leistungsüberprüfung	Leistungsnachweis
Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Performance will be assessed via homework assignments and a final written exam. written exam: 06.06.24; 10:15-11:45. WWZ Auditorium: A-Z. You can find the addresses of the examination rooms here: https://wwz.unibas.ch/de/studium/pruefungen/vorlesungs-und-pruefungsraeume/ You can still withdraw from the examination by submitting a completed, signed form to our office from march 26 until april 5 / 12:00 o'clock. The deregistration form and the mail address can be found on the homepage of the Dean of Studies Office: https://wwz.unibas.ch/en/studies/examinations/de-/registration-of-examinations/ Prior to march 25, please deregister only in the Online Services.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	The lecture elements of the course will provide the needed economic and mathematical basics. Nevertheless, a solid background in microeconomics and mathematics is required. Basic understanding of computational economics will be helpful, but is not required. It is not assumed that students are familiar with a specific programming language or modeling software. A set of different models will be provided (i.e. in GAMS). However, the lecture will not provide detailed background on coding in general.
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch).

Universität Basel

		Applies to everyone: Enrolment = Registration for the course and the exam!
	Bemerkungen	The course will be taught in class

32934-01 Vorlesung: Optimization and AI 3 KP

Dozierende	**Dietmar Maringer**
Zeit und Ort	Fr 10:15-14:00 Wirtschaftswissenschaftliche Fakultät, Grosses PC-Labor S18 HG.37
Datum	01.03.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Wirtschaftswissenschaftliche Fakultät / WWZ
Module	Modul: Field Electives in Economics and Public Policy (Masterstudium: Economics and Public Policy) Modul: Risiko-Analyse (Masterstudium: Actuarial Science) Modul: Specific Electives in Data Science and Computational Economics (Masterstudium: Wirtschaftswissenschaften) Modul: Technology Field (Masterstudium: Business and Technology) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Spezialisierungsmodul: Areas of Specialization in International and/or Monetary Economics (Masterstudium: International and Monetary Economics) Vertiefungsmodul: Quantitative Methods (Masterstudium: Wirtschaftswissenschaften (Studienbeginn vor 01.08.2021))
Lernziele	Successful participants should be familiar with numerical and computational methods for simple and demanding optimization problems. Also, they will improve their programming skills with special emphasis on the implementation of economic / management models and related methods.
Inhalt	Many fields in business and economics involve optimisation. This course covers traditional (numerical) optimization methods, based on deterministic algorithms, such as gradient-based and gradient-free methods, or concepts from constraint-satisfaction. These mehods are highly efficient in some circumstances, but they also have their limits: They are no longer reliable when objective functions have more than one optimum, special constraints or requirements need to be satisfied, or the nature oft he problem is simply too complex. For these cases, meta-heuristics and artificial intelligence (AI) inspired concepts can be used. We will look into simple stochastic methods like Monte Carlo Search and Simulated Annealing/ Threshold Accepting, but also into population based methods that mimic evolutionary processes or swarm intelligence. To deepen the participants' understanding of these methods, their practical application, their strengths and limitations, the course is very much hands-on, allowing for numerous own implementations and experiments.
Literatur	Lecture material will be provided. There is no designated textbook, but to get a flavor of the topics or to deepen their knowledge, (prospective) participants might find the following books (in alphabetical order) helpful: *) Gilli, M.; Maringer, D. & Schumann, E. Numerical Methods and Optimization in Finance, Academic Press, 2nd edition 2019. (or 1st ed., 2011) *) Michalewicz, Z. & Fogel, D. B. How to Solve It: Modern Heuristics, Springer, 2005 *) Brabazon, A.; O'Neill, M. & McGarraghy, S. Natural Computing Algorithms, Springer, 2015 *) Hillier, F. & Liebermann, G., Introduction to Operations Research, McGraw-Hill, 11th ed., 2019. *) Miranda, M. J. & Fackler, P. L. Applied Computational Economics and Finance The MIT Press, 2002 *) Brandimarte, P. Numerical Methods in Finance and Economics, Wiley-Interscience, 2006 Specific recommendations and additional literature to be announced during the course. how these can be setup, implemented, and analysed.
Weblink	https://wwz.unibas.ch/de/cef/lehre/
Leistungsüberprüfung	Leistungsnachweis

Skala	1-6 0,1
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	Combination of active participation, assignment(s), and final exam. written exam: 24.04.24; 08:30-09:30. WWZ S15: A-Z. Late deregistration is not possible for this course. If you do not wish to take part in the exam, please cancel your registration within the registration deadline.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	*) 58989 Computing for Business and Economics (or equivalent)
Anmeldung zur Lehrveranstaltung	Registration: Please enroll in the Online Services (services.unibas.ch); Eucor-Students and mobility students of other Swiss Universities or the FHNW first have to register at the University of Basel BEFORE the start of the course and receive their login data by post (e-mail address of the University of Basel). Processing time up to a week! Detailed information can be found here: https://www.unibas.ch/de/Studium/Mobilitaet.html After successful registration you can enroll for the course in the Online Services (services.unibas.ch). Applies to everyone: Enrolment = Registration for the course and the exam!
Bemerkungen	Throughout the course, we will use Python to implement methods and concepts, and perform experiments. Participants are expected to have at least a basic knowledge of programming as taught in "58989 Computing for Business and Economics".

63593-01 Vorlesung mit Übungen: Methods in Policy Impact Assessment — 3 KP

Dozierende	Robin Argueyrolles **Ruth Delzeit**
Zeit und Ort	Mi 14:15-16:00 Geographie, Seminarraum EG 0-09
Datum	28.02.2024
Intervall	wöchentlich
Angebotsmuster	Jedes Frühjahrsem.
Anbietende Organisationseinheit	Geowissenschaften
Module	Modul: Kernbereich Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Landscape Systems (Masterstudium: Geowissenschaften) Modul: Vorbereitung Masterarbeit Wirtschaftswissenschaften (Masterstudium: Sustainable Development) Modul: Geographische Methoden- und Forschungskompetenz (MSF - Geographie) Modul: Fields: Environment and Development (MSG - African Studies) Modul: Interdisciplinary and Applied African Studies (MSG - African Studies)
Lernziele	Know the different phases of policy evaluation; Have knowledge about the usability and limitation of models in policy evaluation; Work with Computable general equilibrium (CGE) and agent-based models; Have basic knowledge of GAMS
Inhalt	The lecture consists of one hour of theoretical background and one hour of exercises. In the theory part, the different instruments and phases of policy evaluation are discussed. In the exercise, students learn to use models for ex-ante policy evaluation. For this reason, students will also get acquainted to the programming language GAMS.
Literatur	Burfisher, Mary E. (2020). Introduction to computable general equilibrium models. 3rd edition. Cambridge university press
Weblink	https://duw.unibas.ch/de/forschungsgruppen/landnutzungsaenderungen/
Leistungsüberprüfung	Lehrveranst.-begleitend
Skala	1-6 0,5
Wiederholungsprüfung	keine Wiederholungsprüfung
An-/Abmeldung zur Prüfung	Anm.: Belegen Lehrveranstaltung; Abm.: stornieren
Hinweise zur Leistungsüberprüfung	The performance review takes place by graded exercises.
Belegen bei Nichtbestehen	beliebig wiederholbar
Einsatz digitaler Medien	kein spezifischer Einsatz
Unterrichtssprache	Englisch
Teilnahmevoraussetzungen	Some preliminary knowledge of programming is useful.

Bemerkungen	Compulsory attendance