

Cycle of the courses at the Graduate School of Climate Sciences, University of Bern

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Graduate School Compulsory Courses	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Graduate Seminar Climate Sciences	3474	Grosjean et al.	1	3.0	1		x		x
Introduction Course Climate Sciences	6889	Grosjean et al.	1	1.5	1		x		x
Master Thesis Workshop	439574	Grosjean et al.	1	3.0	1	x		x	
Workshop Climate Sciences	6888	Grosjean	1	0.5	1	x		x	

Graduate School Elective Courses	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Climate Sciences in Conversation with Climate Law	475995	Grosjean	1	5.0	3				
Climate, water and agriculture	3472	Holzkämper	1	3.0	1	x		x	
Dendroecological Field Week	6886	Grosjean et al.	1	2.5	3	x			
International Training School on Quantitative Wood Anatomy using ROXAS	482468	Von Arx	1	2.0	1	x		x	
Nature-Based Solutions for Climate Change Adaptation and Mitigation	479263	Davin	1	3.0	1	x		x	
Oeschger Lectures I	411671	Grosjean	1	1.5	3				
Oeschger Lectures II	6884	Grosjean	1	1.5	3				
Tree rings and climate	483380	Von Arx	1	1.0	1	x		x	

Institute of Plant Sciences	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Advanced Plant Biology: Paleoecology	10434	Tinner	2	5.0	1		x		x
Global Change Ecology	9480	Fischer et al.	1	1.5	1		x		x
Holocene Vegetation History of the Central and Southern Alps	10452	Tinner et al.	1	3.0	1	x		x	
Laboratory Safety	2225	Ballmoos	1	1.5	1		x		x
Paleoclimatological and Paleoecological Excursion to the Swiss Plateau and the Alps.	8173	Tinner et al.	1	2.0	1	x		x	
Paleoecology and Paleoclimatology of the Alps and their Forelands	10459	Tinner	1	1.5	1		x		x
Plant Metabolism	2228	Rentsch	3	5.0	1	x		x	

Department of Chemistry and Biochemistry	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Atmospheric and Aerosol Chemistry	4163	Schwikowski	2	3.0	2				x
Environmental Radionuclides and Nuclear Dating	4164	Szidat	2	1.5	2				x

Institute of Geological Sciences	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Environmental- and Limnogeology (incl. field course)	102520	Anselmetti	2	3.0	2	x			
Glacial Geology	8800	Prof. Dr. Naki Akçar	2	3.0	1	x		x	
Quaternary Paleoclimate and Paleoenvironment	103423	Anselmetti et al.	2	2.0	2				x
Surface Processes, Geomorphology	717	Schlunegger	2	3.0	2	x			
Unconsolidated Quaternary Sediments in Drillholes and Outcrops	103057	Anselmetti	2	3.0	2			x	

Institute of Geography	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Advanced lab methods in physical geography I	396251	Chiaia-Hernández	3	3.5	1		x		x
Advanced lab methods in physical geography II	396253	Chiaia-Hernández	3	3.5	1		x		x
Applied Geodata Science I	480094	Stocker	2	4.0	2			x	
Climate Risk Assessment	11486	Romppainen-Martius	2	3.0	1	x		x	
Climatology I (DE)	1446	Brönnimann	1	3.0	2			x	
Climatology II (Aerosols, Boundary Layer, Chemistry)	420007	Brönnimann	2	3.0	2	x			
Climatology III (Climate variability and change)	6414	Brönnimann	2	3.0	1		x		x
Hydrological Process and Modelling	100659	Schaefli	2	4.0	2		x		
Laboratory Course in Soil Biogeochemistry	25089	Mestrot	2	5.0	1	x		x	
Limnology and Paleolimnology	4754	Grosjean	2	3.0	1		x		x
Meteorology I (DE)	415292	Romppainen-Martius	1	3.0	2		x		
Meteorology III	424361	Romppainen-Martius	2	3.0	2				x
Methods of Climate Reconstruction	103709	Franke et al.	2	3.0	2	x			
Micropollutants in the environment	477677	Chiaia-Hernández	2	3.0	1	x		x	
Paleolimnology Field Days	100648	Grosjean	2	1.5	1	x			
Quaternary Climate Change and Terrestrial Ecosystems: Concepts and Observations	26396	Tinner et al.	2	3.0	1	x		x	
Remote Sensing in Climatology	4756	Wunderle	2	3.0	1		x		x
Seminar Applied Geodata Science II	483465	Stocker	2	5.0	2				x
Seminar in Climatology and Climate Risks	26276	Romppainen-Martius et al.	3	5.0	2	x			
Seminar in Hydrology	103723	Schaefli	2	5.0	2		x		
Seminar in Soil Science	25087	Mestrot	2	5.0	2			x	
Seminar Paleolimnology	429597	Grosjean	2	5.0	2			x	
Soil Biogeochemistry	10812	Mestrot	2	3.0	2		x		
Urban Climatology Field Course	26389	Brönnimann	2	3.0	2			x	

Institute of Geography	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Weather and Climate Data	465747	Brönnimann	2	1.5	3		x		

Institute of Mathematical Statistics and Actuarial Science	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Linear Models and Regression I	11422	Ziegel et al.	3	9.0	2		x		
Linear Models and Regression II	11460	Ziegel et al.	3	9.0	2			x	
Multivariate Statistics	11463	Ziegel et al.	3	9.0	2				x
Spatial Statistics	24815	Ginsbourger	3	6.0	2	x			
Statistical Forecasting	445824	Ziegel	3	6.0	3				
Statistical Methods for Climate Sciences I	101564	Piot	2	5.0	1		x		x
Statistical Methods for Climate Sciences II	101675	Piot	2	5.0	1	x		x	

Physics Institute	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Carbon Cycle	7830	Joos	2	4.0	2				x
Glaciology and Ice Cores	8755	Fischer	2	4.0	2			x	
Introduction to Atmospheric Circulation and Modes of Variability	411161	Raible	3	4.0	2			x	
Introduction to Climate and Environmental Physics	7716	Stocker et al.	3	4.0	1		x		x
Specialist Course - Introduction to Climate Modelling	11506	Stocker et al.	3	4.0	2	x			
Stable Isotopes	7149	Leuenberger	3	4.0	2		x		

Institute of Applied Physics	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Atmospheric Physics	7832	Hocke	2	4.0	2			x	
Microwave Remote Sensing	459348	Murk	2	4.0	2	x			

Department of Economics	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Climate Economics: International Cooperation	441353	Winkler	2	4.5	3				
Climate Economics: Scientific and Economic Foundations	101172	Winkler	3	4.5	3				
Econometrics II	11179	Melly	3	4.5	1		x		x
Economic Evaluation of Environmental Goods	446228	Strobl	3	6.0	1		x		x
Economics of Biodiversity and Climate	469070	Strobl	2	6.0	2		x		
Energy Economics	458655	Radulescu	2	4.5	1	x		x	
Environmental Econometrics	446339	Strobl	3	6.0	1		x		x
Environmental Economics: Introduction	1223	Winkler	2	4.5	1		x		x
Microeconomics II	8504	Letina	2	4.5	1		x		x

Department of Economics	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Political Economy of Climate Change	8294	Koubi	2	4.5	1	x		x	
Resource Economics	26498	Winkler	2	4.5	3	x			
Seminar: Economic Analysis of Extreme Climate Events	441355	Strobl	2	6.0	1	x		x	
Seminar: Economics of Health and Climate	441354	Strobl	2	6.0	3				
Seminar: Environmental and Resource Economics	11181	Winkler	2	6.0	3				

Institute of Political Science	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Energy and Mobility Policies for Decarbonisation	478981	Brückmann	1	6.0	1		x		x
Environmental Policy I	466272	Kammerer	1	6.0	2				x
Environmental Policy II	470033	Ingold	1	6.0	2	x			
Multilevel analysis – individual behaviour and attitudes in contexts	104593	Stadelmann	1	6.0	2			x	
The social acceptance of renewable energy in comparative perspective	458472	Stadelmann	1	6.0	2	x			

Institute of History	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Climate and Society in History	478018	Huhtamaa	1	5.0	2		x		x
Introduction to Historical Climatology	440720	Rohr	1	5.0	1	x		x	

Institute of European and International Economic Law	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
International Environmental Law	7443	Perrez	1	5.0	3			x	

Institute of Archaeological Sciences	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
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Institute of Social and Preventive Medicine	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Environmental epidemiology applied to climate sciences	455271	Vicedo Cabrera	1	4.5	1	x		x	

Institute of Philosophy	KSL	Lecturers	Level	ECTS	Cycle	SS2024	AS2024	SS2025	AS2025
Philosophical issues in understanding global change	101987	Brönnimann	1	2.0	1	x		x	
Philosophy of science perspectives on the climate challenge	466270	Lam	2	4.0	3				

Level: 1 = introductory, 2 = intermediate, 3 = advanced

Cycle: 1 = annual, 2 = biannual, 3 = upon special announcement

AS: autumn semester; SS: spring semester

DE: This is an undergraduate level course and held in German.