

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	AS2021	SS2022	AS2022	SS2023
Climate Sciences Workshop	6888	Grosjean	1	0.5	1		x		x
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

Graduate School Elective Courses	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Climate and Agriculture – Impacts and adaptations	3472	Holzkämper	1	3.0	1		x		x
Dendroecological Field Course	6886	Grosjean et al.	1	2.5	3		x		
Oeschger Lectures I	411671	Grosjean	1	1.5	3				
Oeschger Lectures II	6884	Grosjean	1	1.5	3				

Institute of Plant Sciences	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Advanced Plant Biology: Paleocology	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 Paleocological 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	2				x

Department of Chemistry and Biochemistry	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Atmospheric and Aerosol Chemistry	4163	Schwikowski	3	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	AS2021	SS2022	AS2022	SS2023
Environmental- and Limnogeology (incl. field course)	102520	Anselmetti	2	3.0	2		x		
Quaternary Dating Course	8800	Jaccard et al.	2	2.5	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				

Institute of Geography	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Advanced lab methods in physical geography II	396253	Bigalke	3	3.5	1	x		x	
Climate Risk Assessment	11486	Romppainen-Martius	2	3.0	1		x		x
Climatology I (DE)	1446	Brönnimann	1	3.0	2				x

Institute of Geography	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
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	Schaepli	2	4.0	2			x	
Meteorology I (DE)	415292	Romppainen-Martius	1	3.0	2			x	
Meteorology II and Weather Discussion (DE)	423445	Romppainen-Martius et al.	2	1.0	2	x			x
Meteorology III	424361	Romppainen-Martius	2	3.0	2	x			
Methods of Climate Reconstruction	103709	Franke et al.	2	3.0	2		x		
Micrometeorology Field Course (DE)	26389	Eugster et al.	2	3.0	2				x
Paleosols and Paleolimnology	4754	Grosjean et al.	2	3.0	1	x		x	
Paleosols and Paleolimnology (Excursions/Field Days; DE)	100648	Grosjean	2	1.5	1		x		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 in Climatology and Climate Risks	26276	Romppainen-Martius et al.	3	5.0	2		x		
Seminar in Hydrology	103723	Schaepli	2	5.0	2			x	
Seminar Paleolimnology	429597	Grosjean	2	5.0	2				x
Weather and Climate Data	465747	Brönnimann	2	1.5	1	x	x	x	x

Institute of Mathematical Statistics and Actuarial Science	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
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	1	5.0	1	x		x	
Statistical Methods for Climate Sciences II	101675	Piot	1	5.0	1		x		x

Physics Institute	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
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.	2	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	AS2021	SS2022	AS2022	SS2023
Atmospheric Physics	7832	Hocke	2	4.0	2				x
Microwave Remote Sensing	459348	Murk	3	4.0	2		x		

Department of Economics	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Climate Economics: International Cooperation	441353	Winkler	2	4.5	3			x	
Climate Economics: Scientific and Economic Foundations	101172	Winkler	2	4.5	2	x			
Computational Economics: Applied General Equilibrium Modeling	1233	Vöhringer		4.5	1	x		x	
Econometrics II	11179	Melly	3	4.5	1	x		x	
Economic Evaluation of Environmental Goods	446228	Strobl	3	6.0	1	x		x	
Energy Economics	458655	Radulescu	2	4.5	1		x		x
Environmental Econometrics	446339	Strobl	3	6.0	1	x		x	
Environmental Economics for Non-Economists	445484	Winkler et al.	1	4.5	1			x	
Environmental Economics: Introduction	1223	Winkler	2	4.5	1	x		x	
Microeconomics II	8504	Letina	2	4.5	1	x		x	
Political Economy of Climate Change	8294	Koubi	2	4.5	1		x		x
Resource Economics	26498	Winkler	3	4.5	2		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		x		x
Seminar: Environmental and Resource Economics	11181	Winkler	2	6.0	3		x		x

Institute of Political Science	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Climate and Energy Policy	419424	Ingold	1	6.0	3				
Environmental Policy I	466272	Kammerer	1	6.0	2		x		
Environmental Policy II	470033	Ingold	1	6.0	2		x		x

Institute of History	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Climate and Society in History	469131	Huhtamaa	1	5.0	2				x
Introduction into Historical Climatology	440720	Rohr	1	5.0	3		x		

Institute of European and International Economic Law	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
International Environmental Law	7443	Perrez	1	5.0	3		x		

Institute of Archaeological Sciences	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Dendrochronology in archaeology, geosciences and climate sciences	446459	Bolliger	1	5.0	2			x	

Institute of Social and Preventive Medicine	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Environmental epidemiology applied to climate sciences	455271	Vicedo Cabrera		4.5	1		x		x

Institute of Philosophy	KSL	Lecturers	Level	ECTS	Cycle	AS2021	SS2022	AS2022	SS2023
Philosophical issues in understanding global change	101987	Brönnimann	1	2.0	1		x		x

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.