

Annex 1 zum Studienplan des spezialisierten Master-Studienganges und des PhD-Studienganges in Climate Sciences

Annex 1 to the Study Plan for the Specialist Master's Degree Program and the Doctorate Program in Climate Sciences

Übersicht über die Lehrveranstaltungen

Course overview

(Revision Mai 2023)

KSL-Nr.	Vorlesungstitel / Course title	ECTS
MODUL: Obligatorische Veranstaltungen / MODULE: Compulsory Courses		
Graduate School Compulsory Courses		
6889	Introduction Course Climate Sciences	1.5
6888	Workshop Climate Sciences	0.5
3474	Graduate Seminar Climate Sciences	3.0
439574	Master Thesis Workshop	3.0
MODUL: Wahlpflicht / MODULE: Elective Courses		
Graduate School Elective Courses		
411671	Oeschger Lectures I	1.5
6884	Oeschger Lectures II	1.5
3472	Climate and Agriculture	3.0
6886	Dendroecological Field Week	2.5
482468	International Training School on Quantitative Wood Anatomy using ROXAS	2
483380	Tree rings and climate	1
479263	Nature-Based Solutions for Climate Change Adaptation and Mitigation	3
Institute of Plant Sciences		
2228	Plant Metabolism	5.0
2225	Laboratory Safety	1.5
10459	Paleoecology and Paleoclimatology of the Alps and their Forelands	1.5
10434	Advanced Plant Biology: Paleocology	5.0
8173	Paleoclimatological and Paleocological Excursion to the Swiss Plateau and the Alps.	2.0
10452	Holocene Vegetation History of the Central and Southern Alps	3.0
9480	Global Change Ecology	1.5
Department of Chemistry and Biochemistry		
4164	Environmental Radionuclides and Nuclear Dating	1.5
4163	Atmospheric and Aerosol Chemistry	3.0
Institute of Geological Sciences		
8800	Quaternary Dating Course	3.0
103057	Unconsolidated Quaternary Sediments in Drillholes and Outcrops	3.0
102520	Environmental- and Limnogeology	3.0
103423	Quaternary Paleoclimate and Paleoenvironment	2.0
717	Surface Processes, Geomorphology	3.0
Institute of Geography		
1446	Climatology I	3.0
420007	Climatology II (Aerosols, Boundary Layer, Chemistry)	3.0

6414	Climatology III (Climate Variability and Change)		3.0
415292	Meteorology I		3.0
424361	Meteorology III		3.0
103709	Methods of Climate Reconstruction		2.0
4756	Remote Sensing in Climatology		3.0
26389	Urban climatology Field Course		3.0
465747	Weather and Climate Data		1.5
26396	Quaternary Climate Change and Terrestrial Ecosystems		3.0
4754	Limnology - Paleolimnology		3.0
100648-1	Paleolimnology Field Days		1.5
429597	Seminar Paleolimnology	*	5.0
396251	Advanced Lab Methods in Physical Geography I		3.0
396253	Advanced Lab Methods in Physical Geography II		2.5
10812	Soil Biogeochemistry		3.0
25089	Laboratory Course in Soil Biogeochemistry	*	5.0
25087	Seminar in Soil Science	*	5.0
11486	Climate Risk Assessment		3.0
26276	Seminar in Climatology and Climate Risks	*	5.0
101987	Philosophical Issues in Modeling Climate Change (together with Institute of Philosophy)		2.0
100659	Hydrological Process and Modelling		4.0
103723	Seminar in Hydrology	*	5.0
477677	Micropollutants in the environment		3.0
480094	Applied Geodata Science I		4.0
483465	Seminar in Applied Geodata Science II	*	5.0

Institute of Mathematical Statistics and Actuarial Science

101564	Statistical Methods in Climate Sciences I		5.0
101675	Statistical Methods in Climate Sciences II		5.0
11463	Multivariate Statistics		9.0
11422	Linear Models and Regression I		9.0
11460	Linear Models and Regression II		9.0
24815	Spatial Statistics		6.0
445824	Statistical Forecasting		6.0

Physics Institute / Institute of Applied Physics

7716	Introduction to Climate and Environmental Physics		4.0
7149	Stable Isotopes		4.0
8755	Glaciology and Ice Cores		4.0
11506	Introduction to Climate Modelling		4.0
7830	Carbon Cycle		4.0
7832	Atmospheric Physics		4.0
411161	Introduction to Atmospheric Circulation and Modes of Variability		4.0
459348	Microwave Remote Sensing		4.0

Department of Economics

1223	Environmental Economics: Introduction		4.5
446228	Economic Evaluation of Environmental Goods		6.0
446339	Environmental Econometrics		6.0
26498	Resource Economics		4.5
101172	Climate Economics: Scientific and Economic Foundations		4.5
441353	Climate Economics: International Cooperation		4.5
8294	Political Economy of Climate Change		4.5
441354	Seminar: Economics of Health and Climate	*	6.0
441355	Seminar: Economic Analysis of Extreme Climate Events	*	6.0
450347	Seminar: Economics of Biodiversity and Climate	*	6.0

11181	Seminar: Environmental and Resource Economics	*	6.0
8504	Microeconomics II		4.5
11179	Econometrics II		4.5
458655	Energy Economics		4.5
Institute of Political Sciences			
466272	Environmental Policy I	*	6.0
470033	Environmental Policy II	*	6.0
104593	Multilevel analysis – individual behaviour and attitudes in contexts	*	6.0
458472	The social acceptance of renewable energy in comparative perspective	*	6.0
478981	Energy and Mobility Policies for Decarbonisation	*	6.0
Institute of History			
440720	Introduction to Historical Climatology		5.0
469131	Climate and Society in History		5.0
Department of Economic Law			
7443	International Environmental Law		5.0
Department of Public Law			
475995	Seminar Climate Sciences in Conversation with Climate Law	*	5.0
Institute of Philosophy			
101987	Philosophical Issues in Modeling Climate Change (together with Institute of Geography)		2.0
466270	Philosophy of science perspectives on the climate challenge		4.0
Institute of Social and Preventive Medicine			
455271	Environmental epidemiology applied to climate sciences		4.5

**MODUL: Freie Leistungen / MODULE: Elective courses upon approval
MODUL / MODULE: MSc in Atmospheric and Climate Sciences (ETHZ)**

* SP2019 / 2023 Art. 15: Elective seminar

Bern, 20. April 2023

Graduate School of Climate Sciences

Der Studienleiter Klimawissenschaften:
The Director of Studies Climate Sciences:



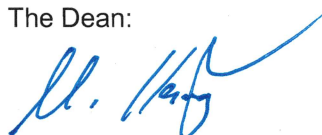
Prof. Dr. Martin Grosjean

Vom Studienausschuss genehmigt:

Bern, 16. Mai 2023

Im Namen der Phil.-nat. Fakultät
On behalf of the Faculty of Science

Der Dekan:
The Dean:



Prof. Dr. Marco Herwegh