

**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 / May 2024)

KSL-Nr.	Vorlesungstitel / Course title	ECTS
<b>MODUL: Obligatorische Veranstaltungen / MODULE: Compulsory Courses</b>		
<b>Graduate School Compulsory Courses</b>		
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
<b>MODUL: Wahlpflicht / MODULE: Elective Courses</b>		
<b>Graduate School Elective Courses</b>		
411671	Oeschger Lectures I	1.5
6884	Oeschger Lectures II	1.5
3472	Climate, Water and Agriculture	3.0
<b>Institute of Plant Sciences</b>		
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: Paleoecology	5.0
8173	Paleoclimatological and Paleoecological 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
<b>Institute of Ecology and Evolution</b>		
486872	Climate Change Ecology	1.5
6886	Dendroecological Field Week	2.5
482468	International Training School on Quantitative Wood Anatomy using ROXAS	2
483380	Tree rings and climate	1
<b>Department of Chemistry and Biochemistry</b>		
4164	Environmental Radionuclides and Nuclear Dating	1.5
<b>Institute of Geological Sciences</b>		
484267	Glacial Geology	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

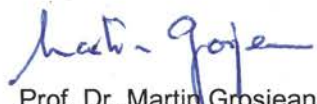
<b>Institute of Geography</b>		
1446	Climatology I	3.0
420007	Climatology II (Aerosols, Boundary Layer, Chemistry)	3.0
6414	Climatology III (Climate Variability and Change)	3.0
415292	Meteorology I	3.0
424361	Meteorology III	3.0
103709	Methods of Climate Reconstruction	2.0
4756	Remote Sensing in Climatology	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
483466	Land in the Earth System I	3.0
489325	Land in the Earth System II	4.0
474055	Environmental Sensing	4.0
<b>Institute of Mathematical Statistics and Actuarial Science</b>		
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
<b>Physics Institute / Institute of Applied Physics</b>		
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
479263	Nature-Based Solutions for Climate Change Adaptation and Mitigation	4.0
<b>Department of Economics</b>		
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
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
<b>Institute of Political Sciences</b>			
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
<b>Institute of History</b>			
440720	Introduction to Historical Climatology		5.0
469131	Climate and Society in History		5.0
<b>Department of Economic Law</b>			
7443	International Environmental Law		5.0
<b>Department of Public Law</b>			
475995	Seminar Climate Sciences in Conversation with Climate Law	*	5.0
<b>Institute of Philosophy</b>			
101987	Philosophical Issues in Modeling Climate Change (together with Institute of Geography)		2.0
<b>Institute of Social and Preventive Medicine</b>			
455271	Environmental epidemiology applied to climate sciences		4.5
<b>MODUL: Freie Leistungen / MODULE: Elective courses upon approval</b>			
<b>MODUL / MODULE: MSc in Atmospheric and Climate Sciences (ETHZ)</b>			

\* SP2019 / 2023 Art. 15: Elective seminar

Bern, 7. Mai 2024

Graduate School of Climate Sciences  
Der Studienleiter Klimawissenschaften:  
The Director of Studies Climate Sciences:

  
Prof. Dr. Martin Grosjean

Vom Studienausschuss genehmigt:

Bern, 28. Mai 2024

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

Der Dekan:  
The Dean:

  
Prof. Dr. Marco Herwegh

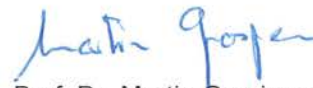
## Anhang 2: Übersicht über die Lehrveranstaltungen

(Revision November 2017)

<b>Vorlesungstitel</b>	<b>ECTS</b>
<b>Obligatorisch (9 ECTS)</b>	
Swiss Climate Summer School	3.0
Kolloquia und/oder Oeschger Seminar Series (6 Semester)	3.0
Internationale Wissenschaftliche Konferenz	2.0
OCCR Young Researchers Meeting	1.0
<b>Wahlpflicht (3 ECTS)</b>	
Anhang 1 des SP Klimawissenschaften oder äquivalent mit Bewilligung der Studienleitung Klimawissenschaften	

Bern, 22. November 2017

Der Studienleiter Klimawissenschaften



Prof. Dr. Martin Grosjean

Vom Studienausschuss genehmigt:

Bern, 28. November 2017

Im Namen der Phil.-nat Fakultät

Der Dekan:



Prof. Dr. Gilberto Colangelo