

**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 2022)

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 and Agriculture	3.0
6886	Dendroecological Field Course	2.5
tba	International Training School on Quantitative Wood Anatomy using ROXAS	2
tba	Tree rings and climate	1
<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: Paleoeology	5.0
8173	Paleoclimatological and Paleoeological 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>Department of Chemistry and Biochemistry</b>		
4164	Environmental Radionuclides and Nuclear Dating	1.5
4163	Atmospheric and Aerosol Chemistry	3.0
<b>Institute of Geological Sciences</b>		
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

<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
423445	Meteorology II and Weather Discussion	3.0
424361	Meteorology III	3.0
103709	Methods of Climate Reconstruction	2.0
4756	Remote Sensing in Climatology	3.0
26389	Micrometeorology 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
396253	Advanced Lab Methods in Physical Geography	2.5
11486	Climate Risk Assessment	3.0
26276	Seminar in Climatology and Climate Risks	5.0
101987	Philosophical issues in understanding global change (together with Institute of Philosophy)	2.0
100659	Hydrological Process and Modelling	4.0
103723	Seminar in Hydrology	5.0
453117	Mountain glaciers in a changing climate	6.0
477677	Micropollutants in the environment	3.0
<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
445824	Statistical Forecasting	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
<b>Department of Economics</b>		
1223	Environmental Economics: Introduction	4.5
446228	Economic Evaluation of Environmental Goods	6
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
469070	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
<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 understanding global change (together with Institute of Geography)	2.0
466270	Philosophy of science perspectives on the climate challenge	4.0
<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>		

Bern, 23. Mai 2022

Graduate School of Climate Sciences

Der Studienleiter Klimawissenschaften:  
The Director of Studies Climate Sciences:

Prof. Dr. Martin Grosjean

*Vom Studiausschuss genehmigt:*

Bern, 31. Mai 2022

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

Der Dekan:  
The Dean:

Prof. Dr. Zoltan Balogh

## 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