

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 | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|-------------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| Climate and Agriculture – Impacts and adaptations | 3472 | Holzkämper | 1 | 3.0 | 1 | | x | | x |
| Climate Sciences in Conversation with Climate Law | 475995 | xGrosjeanx et al. | 1 | 5.0 | 2 | x | | | |
| Dendroecological Field Course | 6886 | Grosjean et al. | 1 | 2.5 | 3 | | | | |
| Economics of Biodiversity and Climate | 469070 | xProf. Dr. Eric Stroblx | 2 | 6.0 | 2 | 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | | |

| Department of Chemistry and Biochemistry | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|-------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|---------------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | Schaepli | 2 | 4.0 | 2 | x | | | |
| Limnology and Paleolimnology | 4754 | Grosjean et al. | 2 | 3.0 | 1 | x | | 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 | | |
| Quaternary Climate Change and Terrestrial Ecosystems: Concepts and Observations | 26396 | Tinner et al. | 2 | 3.0 | 1 | | x | | x |

| Institute of Geography | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|---------------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|-------------------------------------|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| Climate Economics: International Cooperation | 441353 | Winkler | 2 | 4.5 | 3 | x | | | |
| Climate Economics: Scientific and Economic Foundations | 101172 | Winkler | 2 | 4.5 | 2 | | | 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: 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 | 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 | | x | | |
| Seminar: Environmental and Resource Economics | 11181 | Winkler | 2 | 6.0 | 3 | | x | | |

| Institute of Political Science | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|---------------------------------------|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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 | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| Climate and Society in History | 478018 | Huhtamaa | 1 | 5.0 | 2 | x | | | |
| Introduction into Historical Climatology | 440720 | Rohr | 1 | 5.0 | 1 | | | | x |

| Institute of European and International Economic Law | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| International Environmental Law | 7443 | Perrez | 1 | 5.0 | 3 | | | | |

| Institute of Archaeological Sciences | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
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| Institute of Social and Preventive Medicine | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|--|------------|-------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| Environmental epidemiology applied to climate sciences | 455271 | Vicedo Cabrera | | 4.5 | 1 | | x | | x |

| Institute of Philosophy | KSL | Lecturers | Level | ECTS | Cycle | AS2022 | SS2023 | AS2023 | SS2024 |
|---|------------|------------------|--------------|-------------|--------------|---------------|---------------|---------------|---------------|
| 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.