

Welcome

Master's open days 2024

Geography

Olivia Romppainen-Martius, Sabine Röthlin

Master studies in Geography at the University of Bern

Information session on Tuesday, 19 March 2024, 12.15h – 13.00h, GIUB 001



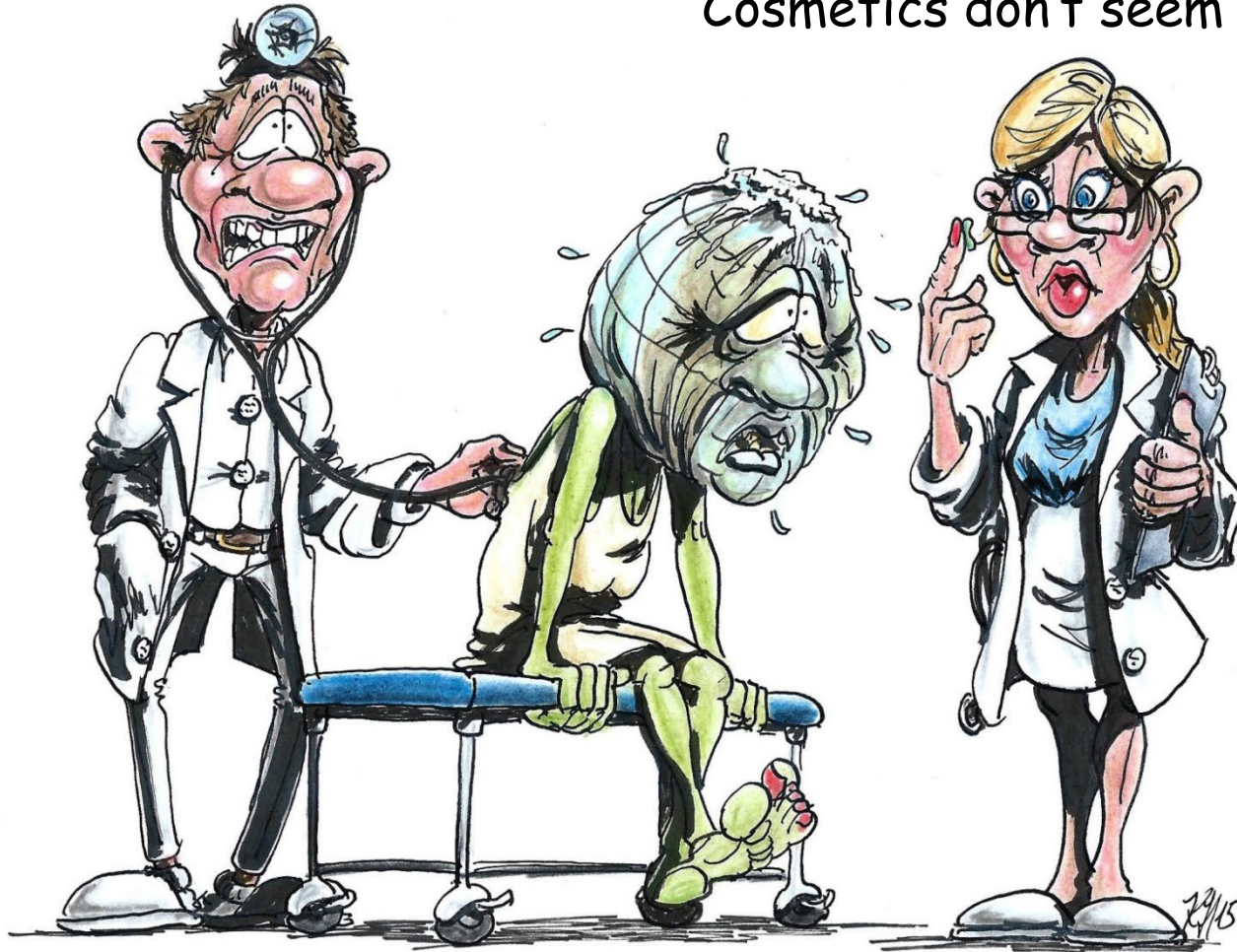
Welcome at the GIUB Institute of Geography at the University of Bern



- Why study in Bern?
- What are the job perspectives after the MSc programme
- What will I learn in the MSc programme?

My guess it's parasites

Cosmetics don't seem to help

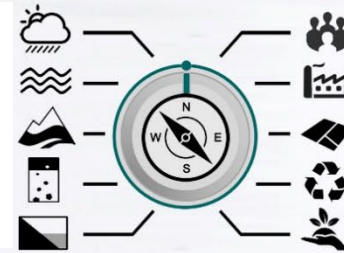


Goal: science-based decisions

Studying Geography ...

Master Geographie
Main washing cycle

Climate
Hydrol.
Geomorph.
Soil
Geodata



Cult.
Econ.
Spatial dev.
Critical sust.
LS-SLM





Soil science, lake sediments

Paleoclimate and Paleovegetation

The Soil Science Group studies the Biogeochemistry of soils under global change to improve environmental health and food production.



Climatology and Meteorology

Weather extremes, atmospheric dynamics

Climate reconstruction, climate variability, climate change



Geocomputation and Earth Observation

Climate change impacts on land ecosystems

Earth observation data process-based models

Data-driven approaches



Hydrology

Discharge (mean and extreme), effects of climate change, water quality ...



Geomorphology, Modelling of human and environmental systems

Natural hazards

Risk and resiliency

River morphology and wood transport

Economic geography Regional development



Dynamic economic development in cities, rural areas and mountain regions
Urban- and regional politics
Sustainable economic development
Entrepreneurship and innovation
...

Urban research and sustainable spatial planning



Sustainable land management
Property
Landscape
Housing shortage
Settlement development
Soil as scarce good
...

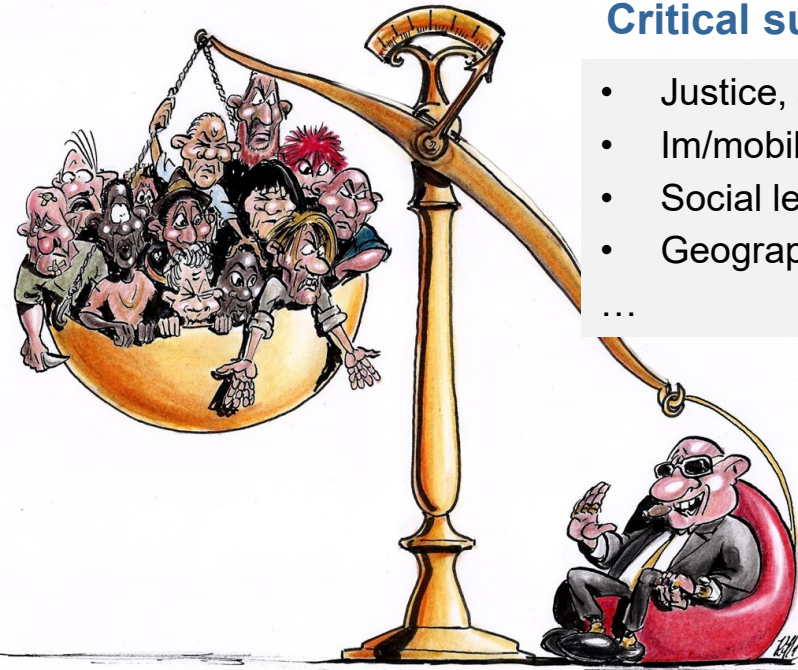
Societal development
Justice and globalization
Critical and feminist Geography
...

Social and cultural geography



Critical sustainability research

- Justice, sustainability, intersectionality, emancipation
- Im/mobilities, migration, work, education
- Social learning and transdisciplinarity
- Geography & media, art and digital technologies (mLAB)
- ...



Land Systems and Sustainable Land Management



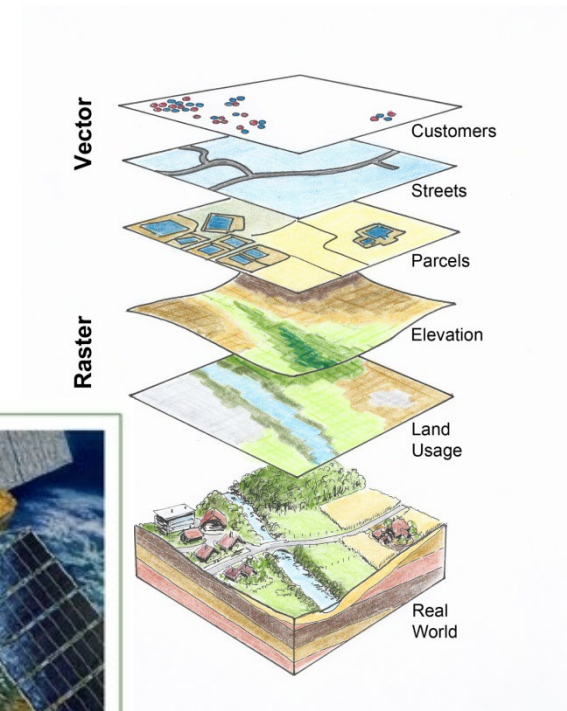
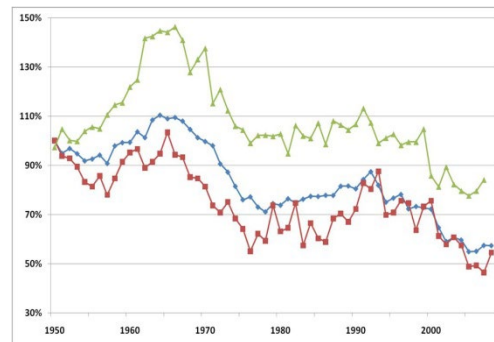
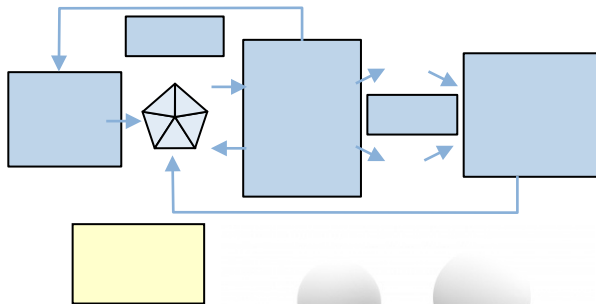
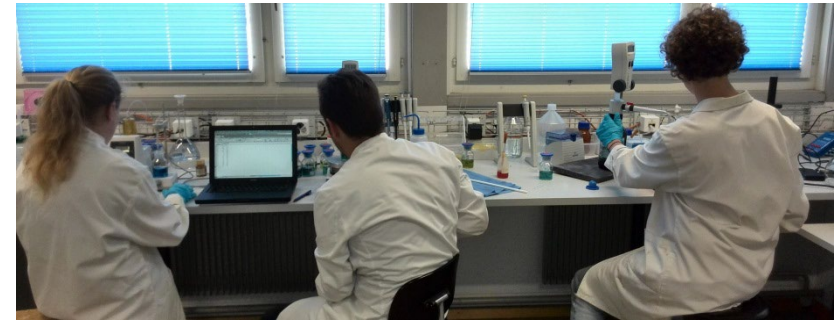
Complex Social-Ecological Systems:

- Environmental governance and social responsibility
- Telecoupling and land systems
- Land conditions and sustainable land resources use

- Deepen topic-specific and interdisciplinary knowledge
- Be prepared for your own scientific project (MSc thesis)
- Learn how to independently carry out a project (MSc thesis)
- Prepare to become a high-school teacher (Master Major)
- Learn how to critically and efficiently work with (big) data
- Understanding complex problems and working on solutions
- Taking on responsibility
- Acquire knowledge and skills that are relevant for working outside of science

Methods module

- Lab methods
- GIS
- Quantitative methods
- Geodata analysis und modelling
- Qualitative methods

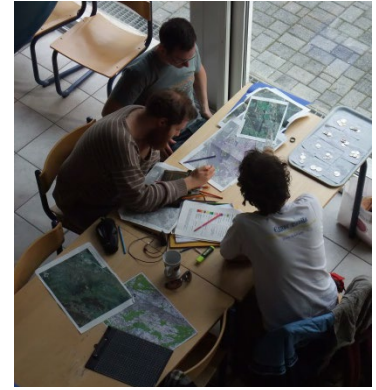
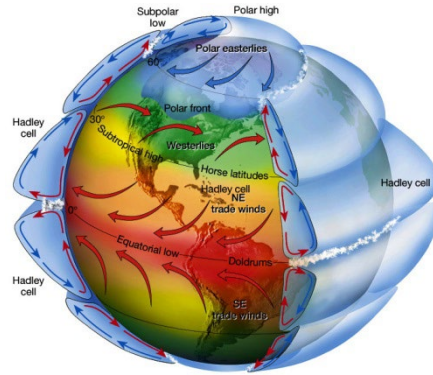


Field Research and Practice Module (FFPM)



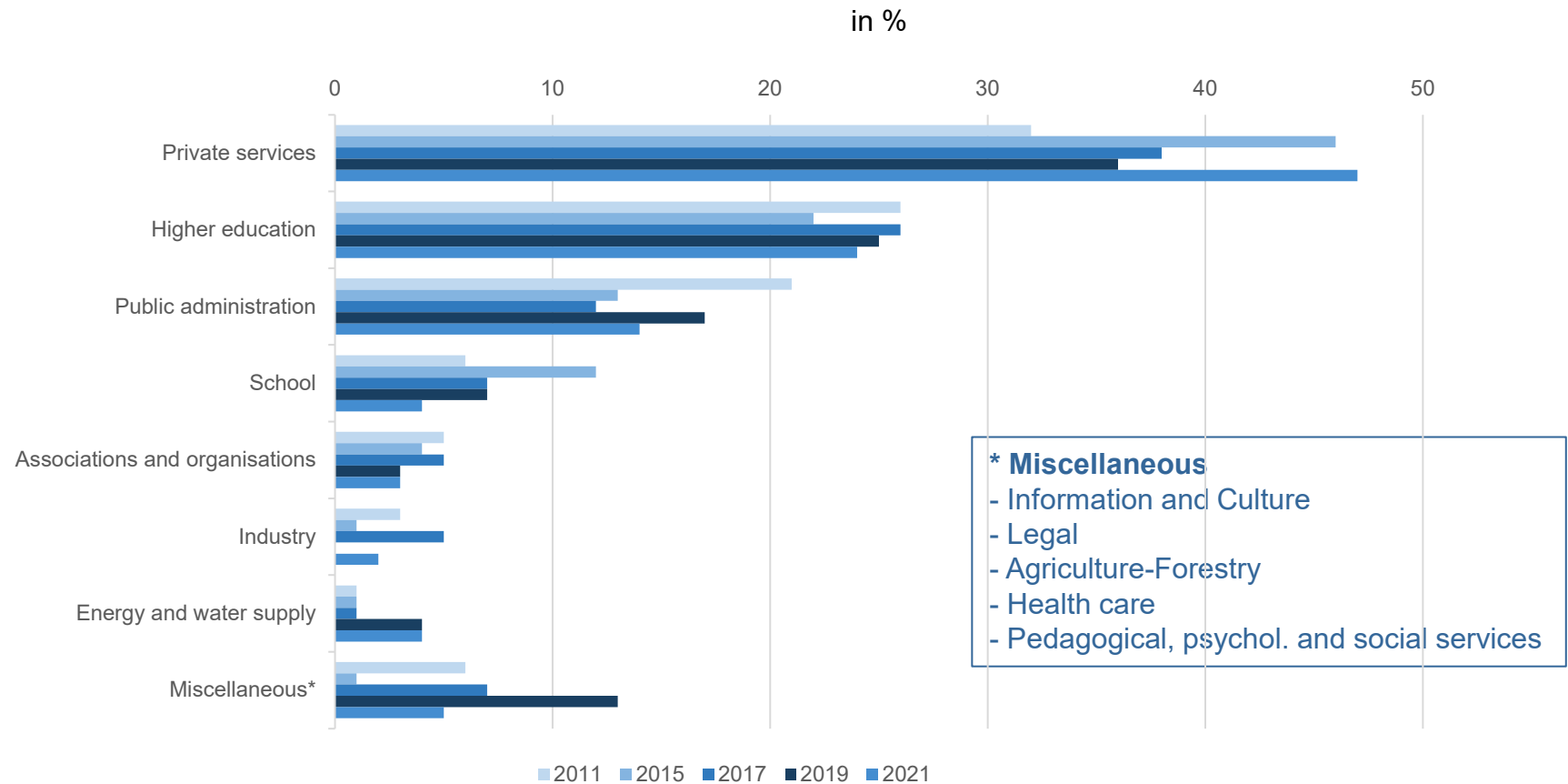
Field methods

Part of the master thesis projects



Job perspectives

First position after the MSc degree



Source: SDBB (Schweizerisches Dienstleistungszentrum Berufsbildung)



What is important for finding a good job after the MSc?

Feedback from our alumni

Tackle these points with attending courses

- **Know the basics**
- Being able to quickly find your way into a new topic and to quickly understand complex situations and work on solutions
- **Learn state-of-the-art methods and know how to use them**
- Establishing a network during the master thesis **and in internships and through working during the master studies**
- **Spend time abroad or at a different Swiss Uni (Master thesis, Erasmus, learn a language)**
- **Being able to find the connections, network and interdisciplinarity thinking**
- Being able to work on a problem independently (finish a project, time management)
- Being able to generalize
- Being able to find practical solutions, being pragmatic, transfer science to application
- **Being motivated by challenges**
- Being motivated and enthusiastic about what you do
- Find your focus:
 - **Breadth: being a generalist, allrounder, team player**
 - **Depth: become an expert in one sub-speciality**

Tackle these points with your MSc project

- Know the basics
- Being able to quickly find your way into a new topic and to quickly understand complex situations and work on solutions
- Learn state-of-the-art methods and know how to use them
- Establishing a network during the master thesis and in internships and through working during the master studies
- Spend time abroad or at a different Swiss Uni (Master thesis, Erasmus, learn a language)
- Being able to find the connections, network and interdisciplinarity thinking
- Being able to work on a problem independently (finish a project, time management)
- Being able to generalize
- Being able to find practical solutions, being pragmatic, transfer science to application
- Being motivated by challenges
- Being motivated and enthusiastic about what you do
- Find your focus:
 - Broadness: being a generalist, allrounder, team player
 - Depth: become an expert in one sub-speciality

Mobility

- **Erasmus**
study at an other European University, registration for 2024/25 in December 2023
- **ISEP**
study overseas (approx. 135 exchange agreements with the US and more than 75 worldwide)
 - Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg
 - United Nations University, Tokyo, Japan
- **Mobility between Swiss Universities**
study at an other Swiss University

we offer a **Mono Master** and a **Master Major**, both with the **option for a specialisation in sustainability**

Mono Master (120 ECTS)

Geography lectures (60 E)

- with specialisation min. 15 ECTS courses dedicated to sustainability

Master thesis and colloquium (60 E)

With specialization

- The research question needs to focus on sustainability
- A chapter must be included to reflect on the role of sustainability in relationship to the issue at stake in the thesis

Master Major (120 ECTS)

Geography lectures (60 E)

- with specialisation min. 15 ECTS courses dedicated to sustainability

Master thesis and colloquium (30 E)

With specialization

- The research question needs to focus on sustainability
- A chapter must be included to reflect on the role of sustainability in relationship to the issue at stake in the thesis

Lectures Minor (30 E)

Geography lectures (60 ECTS)

Mono Master (120 ECTS)

Required Electives (min. 16 ECTS)

- **1 Seminar (5 ECTS)**
- **at least 6 ECTS (min. 2 courses) from the methods module**
- **5 ECTS from the Field Research and Practice Module**

Geography courses (min. 29 ECTS)

- **Climatology**
- **Hydrology**
- **Geomorphology**
- **Soil science**
- **Geodata**
- **Social and cultural geography**
- **Economic Geography**
- **Political urban research and sustainable spatial development**
- **Land Systems and Sustainable Land Management (LS-SLM)**
- **Critical Sustainability Studies**

Elective courses (max. 15 ECTS)

- **Lectures from other study fields can be chosen**
- **an internship of max. 15 ECTS can be credited to the degree program**

Master Major (90 ECTS)

Required Electives (min.16 ECTS)

- **1 Seminar (5 ECTS)**
- **at least 6 ECTS (min. 2 courses) from the methods module**
- **5 ECTS from the Field Research and Practice Module**

Geography courses (min. **38 ECTS**)

- **Climatology**
- **Hydrology**
- **Geomorphology**
- **Soil science**
- **Geodata**
- **Social and cultural geography**
- **Economic Geography**
- **Political urban research and sustainable spatial development**
- **Land Systems and Sustainable Land Management (LS-SLM)**
- **Critical Sustainability Studies**

Elective courses (max. **6 ECTS**)

- **Lectures from other study fields can be chosen**
- **an internship of max. 6 ECTS) can be credited to the degree program**

Required Elective courses

field research and practice module	Method Module
Attend one field course (approx. 10 days). Every summer (end of spring semester) the units offer various field courses/major excursions	There are various courses to choose from: <ul style="list-style-type: none">• Geoprocessing• Qualitative Methods• Applied Statistics• Theories of Sciences• Laboratory Methods in Physical Geography• ...
5 ECTS	At least 6 ECTS (min. 2 courses)
If possible in the first summer	

- According to the study plan, you have the possibility to credited courses in the **elective area**.
 - 15 ECTS in the Mono Master 120 ECTS
 - 6 ECTS in the Master Major 90 ECTS
- You can take courses at other institutes, other faculties, other universities
- Only Master courses can be credited
- No approval is required in advance
- For achievements at other universities, you must bring us an official transcript of records
- Only whole courses (no splitting) can be credited.
- internship

internship

Master Mono

Master Major

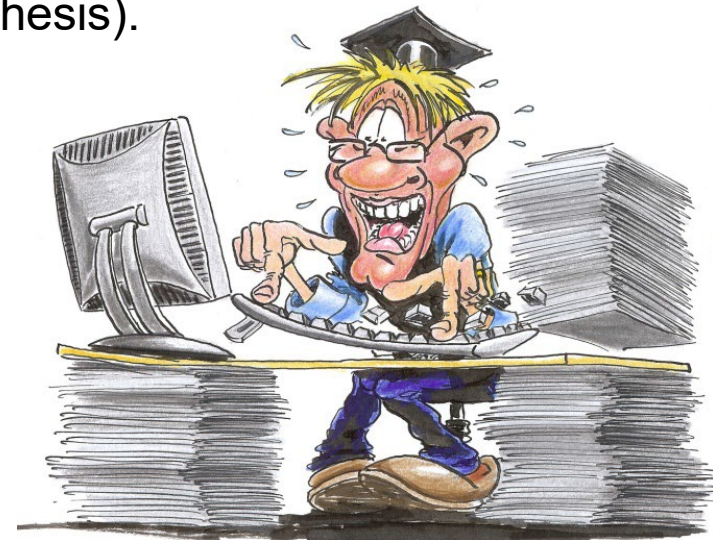
- The internship is voluntary and there is no right to an internship
- Students look for the internship place on their own.
- The internship can be completed in a company of the administration (federal office/canton/municipalities), in an engineering or planning office (or similar company), in an NGO or in a university or non-university research institution in Switzerland or abroad.
- The internship has to be supervised by a group leader (lecturers and research group leaders according to the list of examiners).
- The candidate must find this supervisor him/herself.
- There is no entitlement to supervision, especially if the topic does not match the expertise of the supervisor.

max. 15 ECTS (elective area)

max. 6 ECTS (elective area)

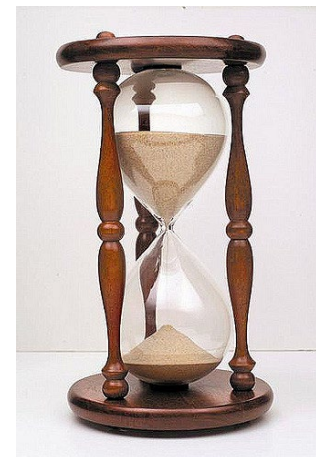
Master thesis project

- **Duration:** max. 18 months (60 E Master Mono) or max. 12 months (30 E Master Major).
- **Start:** Clarifications should be made as early as possible in the course of the 1st Master's semester (if the Master's programme is to be completed in 4 semesters).
- **Choice of topic:** Information can be obtained at any time from the website of the departments/research units.
- **Courses:** depending on the topic, certain courses must be successfully completed beforehand; enquire at the research units!
- **Fieldwork:** depending on the topic chosen, fieldwork lasting several months must be planned (mainly concerns 60 E thesis).
- => good study planning is necessary!



Start and duration of study

- Start of study is possible in the autumn semester or in the spring semester
- **Standard period of study: 4 semesters**
- up to 6 semesters without extension of study time
- more than 6 semesters with appropriate justification and approved extension of study time
- **Apply for an extension of study time in your 6th semester**
- Please note: if you study in parallel for a teachers degree this does not count as a reason for a studies extension.



- In order to transfer to a Master's degree programme, a confirmation from the responsible dean's office that all conditions of the Bachelor's degree programme have been fulfilled is required.
- If your degree programme is administered via KSL (Uni Bern), an automatic transfer to the consecutive Master's degree programme is possible, provided that your Bachelor's degree is available by mid-October (fall semester) or mid-March (spring semester).
- In order to transfer to a non-consecutive Master's degree programme, you must also submit a placement certificate.
- Students from other universities should take care of their Bachelor's degree early: individual deadline extensions are possible > ZIB
- Students with a BSc Major in Geography from a Swiss university are admitted to the Master's programme without any conditions
- Enrolment takes place at the admission office ([ZIB](#))

from BSc Geography **Minor** to MSc Geographie **Major**

- Prerequisite: at least 60 ECTS in geography in the Bachelor's degree.
- Placement decision by the faculty is required
- As a rule, at least 30 ECTS or a maximum of 60 ECTS from the Bachelor's degree are subsequently required (additional credits ZUSMA).
- Additional credits can be completed parallel to the Master's degree, but are a condition for the Master's degree and should be completed before the Master's thesis begins.

Wie lässt sich das Masterstudium kombinieren mit der Ausbildung an der PHBern Sekundarstufe II?

Masterstudium Geographie

- **Regelstudienzeit: 4 Semester**
- bis 6 Semester ohne Studienzeitverlängerung
- mehr als 6 Semester mit entsprechender Begründung und bewilligter Studienzeitverlängerung
- Achtung: paralleles Studieren an der PH wird nicht als Grund für Studienzeit-verlängerung anerkannt!



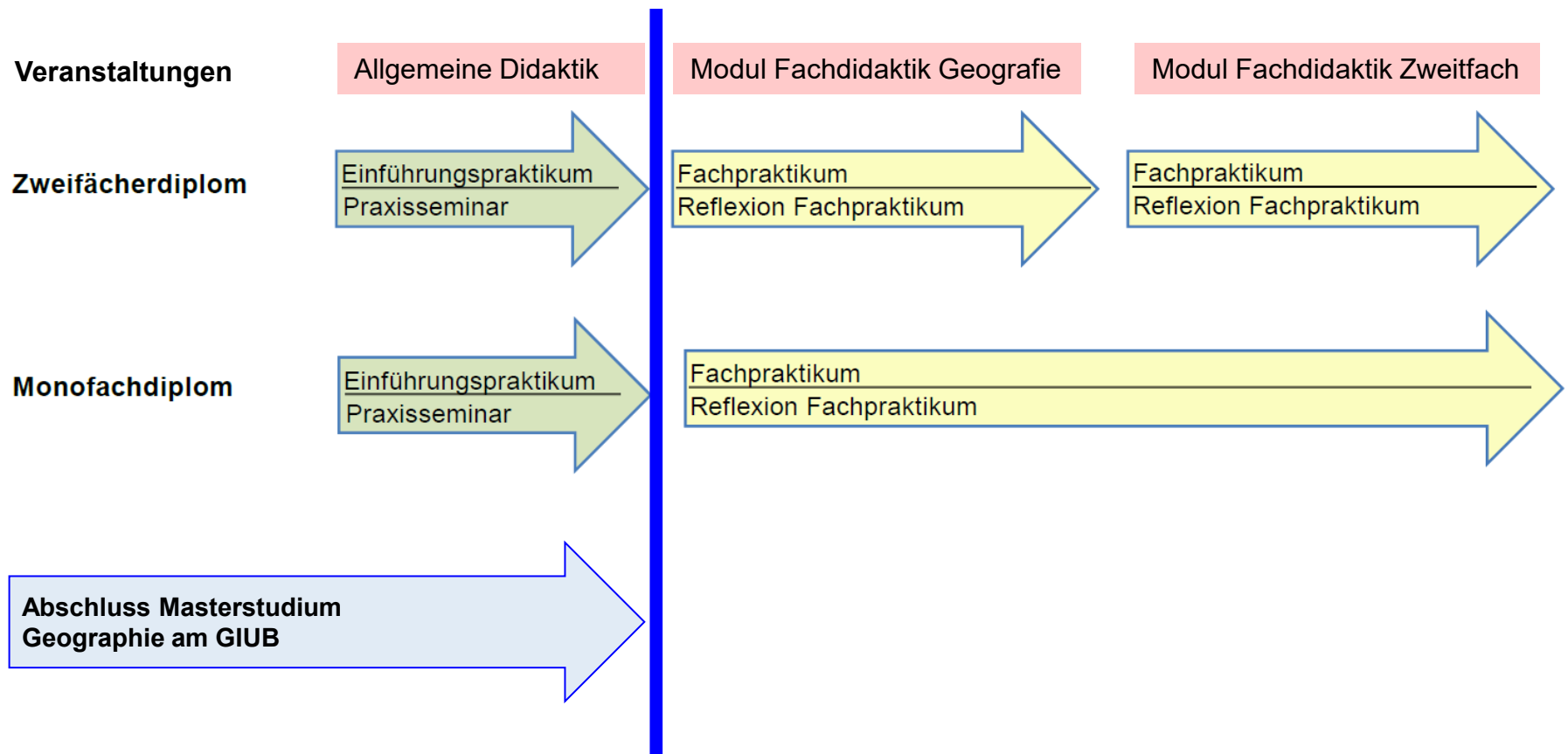
Ausbildung an der PHBern Sek. II

- **Regelstudienzeit: 2 Semester Vollzeit**
- bis 7 Semester Teilzeit ohne Studienzeitverlängerung
- mehr als 7 Semester mit entsprechender Begründung und bewilligter Studienzeitverlängerung

Sabine Röthlin,
Studienberatung GIUB

Matthias Probst,
Dozent Fachdidaktik Geografie

Studienberatung PHBern Sek II
Büro D317, Fabrikstrasse 8, Bern



Sekundarstufe II

Möchten Sie Ihre Begeisterung für Ihr Fach an Schülerinnen und Schüler im Alter von 15 bis 20 Jahren weitergeben? Als Lehrerin oder Lehrer auf der Sekundarstufe II unterrichten Sie an Gymnasien, Fachmittelschulen und – mit dem ergänzenden Zertifikat Berufspädagogik – an Berufsmaturitätsschulen in der ganzen Schweiz.

[Flyer ansehen](#)[Informationsanlass besuchen](#)[Anmelden](#)

Steckbrief

Tätigkeit nach der Ausbildung

Unterrichten an Gymnasien, Fachmittelschulen und Berufsmaturitätsschulen in der ganzen Schweiz

Zulassung

- Studium: universitärer Bachelor
- Diplomierung: universitärer Master (Sonderbestimmungen für einzelne Fächer)

Dauer der Ausbildung

- 60 ECTS Umfang
- 2 Semester Vollzeit bzw. max. 7 Semester Teilzeit

Abschluss

EDK-anerkanntes Lehrdiplom für Maturitätsschulen oder Erweiterungsdiplom (Unterrichtsbefähigung für ein zusätzliches Fach).
Wahlweise mit integriertem Zertifikat Berufspädagogik

Anmeldefristen

- Herbstsemester: 1. Februar bis 31. März
- Frühjahrssemester: 1. September bis 31. Oktober

STUDIENÜBERSICHT
STUDIENBEREICHE
LEHRVERANSTALTUNGEN
BERUFSAUSSICHTEN UND WEITERBILDUNG
ZULASSUNG UND ANMELDUNG
KONTAKT UND BERATUNG

Website PHBern

<https://www.phbern.ch/studium/sekundarstufe-ii>

www.geography.unibe.ch (Studies)

- Director of studies Geography
Prof. Dr. Olivia Romppainen-Martius
Contact via Student Advice (Ms Sabine Röthlin or Ms Elisabeth Roggli)

- **SECRETARIAT OF DIRECTORATE OF STUDIES**
studienleitung.giub@unibe.ch, Tel. 031 684 52 70

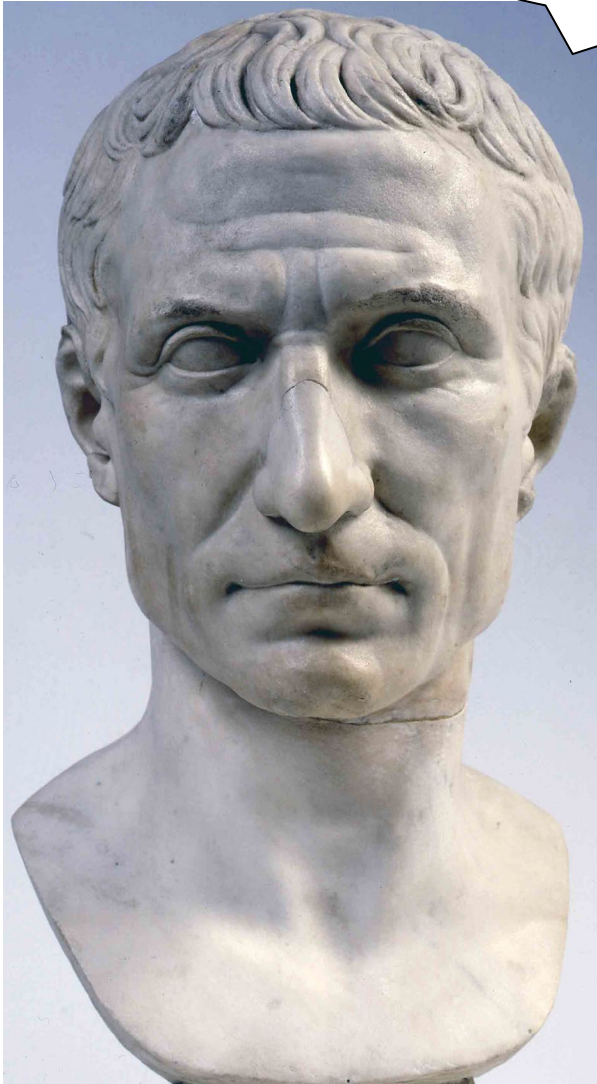
Ms Sabine Röthlin (Student Advisory Service, Applications, Degrees)
sabine.roethlin@unibe.ch, Tel. 031 684 53 70
Consultation-hours: Wednesday and Thursday, 10.00-11.45h (or by appointment and email)

- Ms Elisabeth Roggli** (Coordination of exams, general questions)
elisabeth.roggli-schlaepi@unibe.ch, Tel. 031 684 52 70
Consultation-hours: Tuesday, Wednesday and Friday, 10.00-11.45h or by email

- **PH Bern**
Matthias Probst, Dozent Fachdidaktik Geographie und Betreuung
Fachpraktikum
Studienberatung Institut Sekundarstufe II PHBern:
studienberatung.is2@phbern.ch

- **Student representatives**
fsgeo@giub.unibe.ch

It is all Greek to me



Questions?