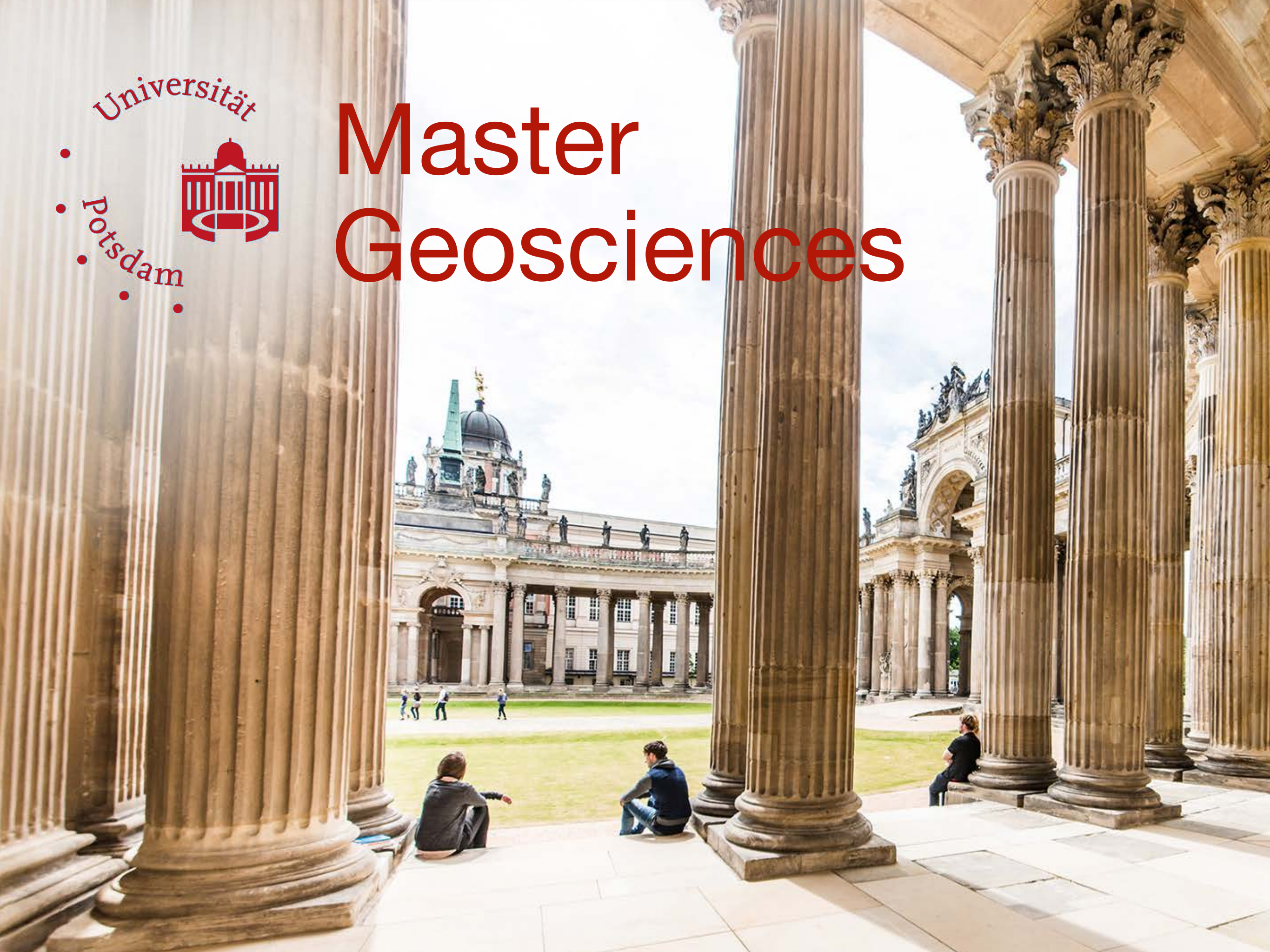


Universität



Potsdam

Master Geosciences





University of Potsdam
Department of Geosciences









UNIVERSITEIT ROETERSDAM

 Zentrale
Abschlussfeier
für den Jahrgang
2021/2022
www.uroetersdam.de

<https://www.geo.uni-potsdam.de/>





1991 Universität Potsdam

1994 Institut für Geowissenschaften

1994 Diploma in Geowissenschaften

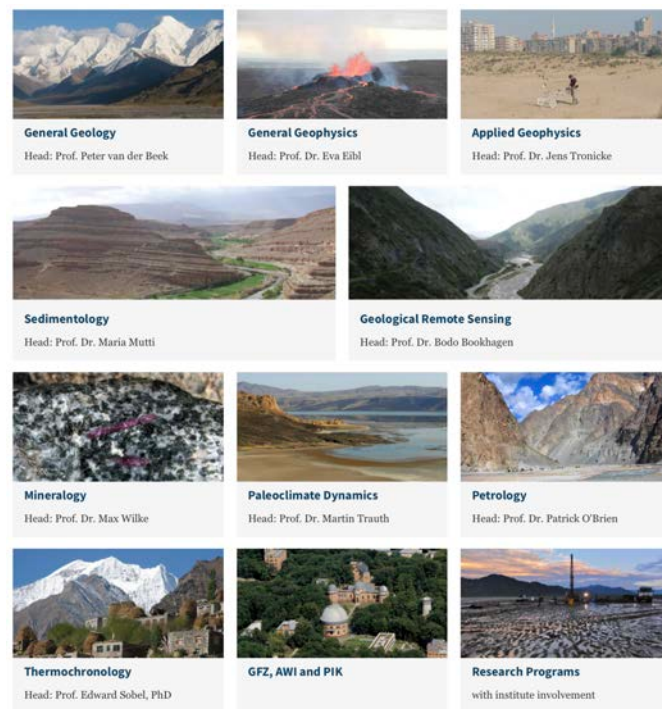
2007 Bachelor/Master in Geowissenschaften

2019 Bachelor Geowissenschaften

2022 Master in Geosciences

<http://www.geo.uni-potsdam.de>





Geoscience Research at U Potsdam



General Geology

Head: Prof. Peter van der Beek



Photo: Eva Eibl

General Geophysics

Head: Prof. Dr. Eva Eibl



Applied Geophysics

Head: Prof. Dr. Jens Tronicke



Sedimentology

Head: Prof. Dr. Maria Mutti



Photo: B. Bookhagen

Geological Remote Sensing

Head: Prof. Dr. B. Bookhagen



Mineralogy

Head: Prof. Dr. Max Wilke



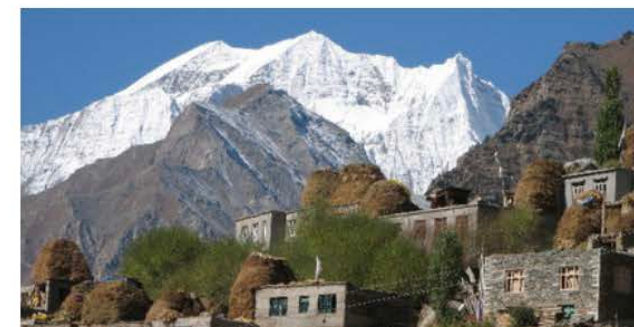
Paleoclimate Dynamics

Head: Prof. Dr. Martin Trauth



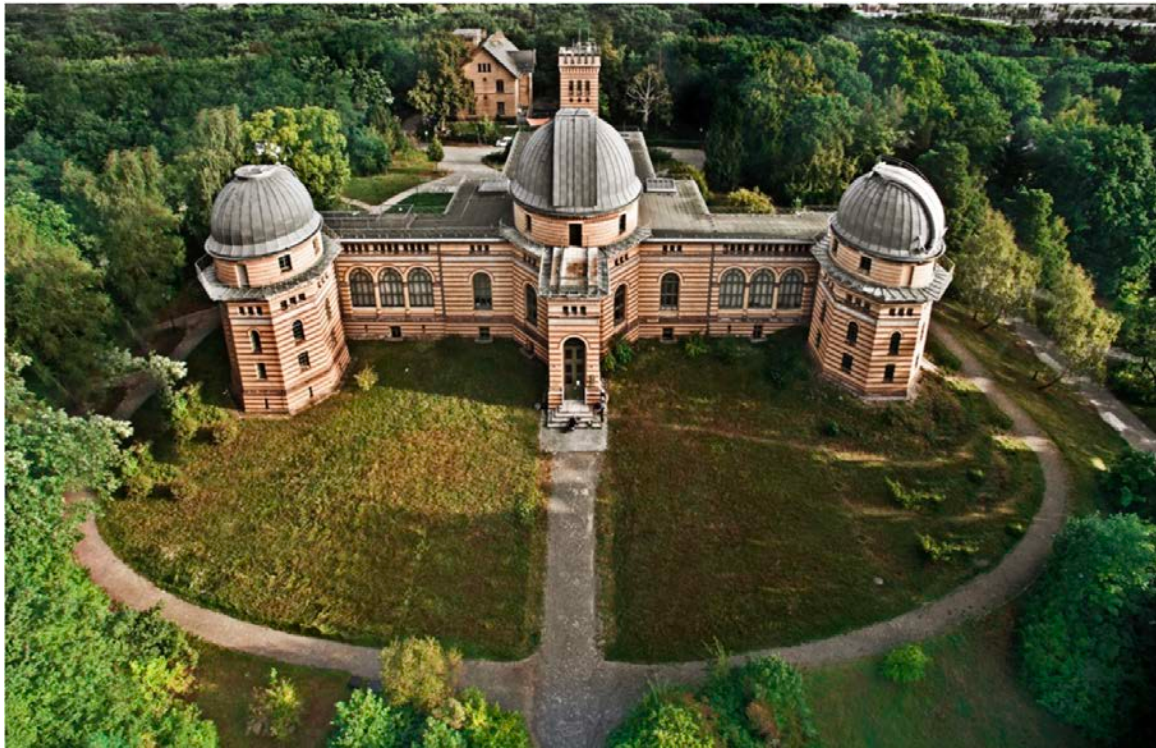
Petrology

Head: Prof. Dr. Patrick O'Brien



Thermochronology

Head: Prof. Edward Sobel, PhD



POTSDAM INSTITUTE FOR
CLIMATE IMPACT RESEARCH



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG



GFZ

Helmholtz-Zentrum
POTSDAM



Studying Geosciences at U Potsdam

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Coordinators for the Federal Education
Assistance Act

General Information

Here you find a description of the course program, our course brochure, the contacts of our student advisors and other important information about the MSc



Laboratory Courses

The institute has excellent science laboratories where our students are trained in laboratory methods. Here are some examples of attractive laboratory cour



Geoscience Careers

Here you can find examples of careers of our graduates and interviews with them, in which they tell us what they found important on the way to their profes



How to apply?

This contains all important information on the application procedure, it lists the requirement documents and where to get help.



Field Courses

The interdisciplinary field courses worldwide, which combine traditional terrain methods with modern measurement methods in an excellent way, are certainly



Graduate Research

This page contains examples of current research projects in which you can work together with internationally recognized scientists.

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Master | Geosciences

Everything you need to know about the Master's degree in Geosciences

List of modules and courses (WiSe 2025/26)

List of modules and courses (2022)

Topics for bachelor's and master's theses

Overview of possible topic suggestions for bachelor's and master's theses (Moodle)

E-Mail Distribution list for Master Students

Every student should please enroll in the email distribution list of the institute. Please contact the student council or the student advisor

Structure and study plans Master of Geosciences 2025

Starting in the 2025/26 winter semester, new study regulations will apply to new master's students. The Master's program in Geosciences 2025 will be offered at the University of Potsdam as a single-subject program with a standard period of study (full-time) of four semesters and 120 credit points. The structure, modules, and courses can be found [here](#).

Another new feature is that students can begin their master's studies in both the winter and summer semesters.

Further information will follow shortly (study regulations for the Master's program in Geoscience 2025, etc.).

Structure and study plans Master of Geosciences 2022

The consecutive Master's program in Geosciences is offered at the University of Potsdam as a single-subject program with a standard period of study (full-time study) of four semesters and 120 credit points. The master's program is structured as follows:

Master of Geosciences 2022 - Structure

You find below suggested study plans for persons who have a broader interest in Geosciences and for individuals who already know that there field of interest coincides more with one of the focus directions geology, geophysics or mineralogy/petrology. Please be aware that the suggested study plans can be modified individually. They should be seen as possible concretizations of the general scheme and how the flexibility of the general scheme could be used. Many more are possible.

Study plan Master of Geosciences (2022) General

Study plan Master of Geosciences (2022) specialization in Geology

Study plan Master of Geosciences (2022) specialization in Mineralogy/Petrology

Study plan Master of Geosciences (2022) specialization in Geophysics

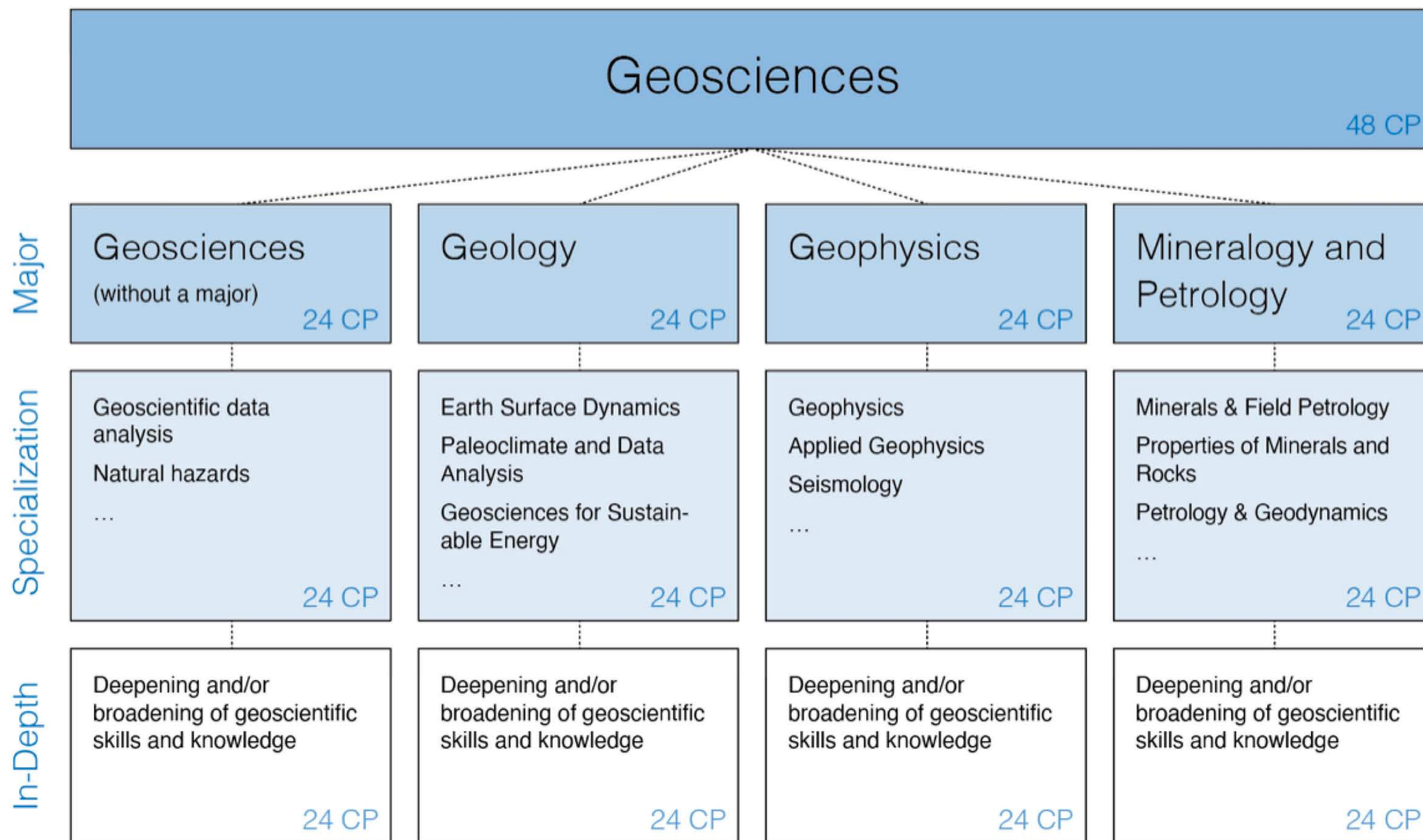
[Modules and courses of the M.Sc. Geoscience \(2022\)](#) 

Information on course selection

 [Flyer for the Master`s degree in Geosciences \(Oct. 2023\) at the University of Potsdam](#) (PDF, 199 KB)

Master of Geosciences

- Mandatory Modules ■
- Core Modules ■
- Specialization Modules ■
- Elective Modules ■



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Curriculum Structure of the M.Sc. Geosciences (2025/2026)

The M.Sc. Geoscience comprises 120 Credit Points (CP), consisting of the following components:

- Mandatory Modules - 18 CP
- Core Modules - 24 CP
- Specialization Modules - 24 CP
- Elective Modules - 24 CP
- Master's Thesis - 30 CP

= 120 CP

The Mandatory Modules are the same for all students. Students then have the option of either specialising in one of three Majors (Geology or Geophysics or Mineralogy & Petrology), which comprise a predetermined combination of Core Modules and a choice of pre-selected Specialization Modules, or choosing their own individual combination within both Core and Specialization Modules. All students are free to choose their Elective Modules.

Students who choose one of the Majors will have it listed on their final degree, e.g., M.Sc. Geosciences (Geology).

W - only offered in the winter semester | **S** - summer semester only | **W/S** - offered in every semester | **W+S** - module covers both semesters

Mandatory Modules (18 CP)

Core Modules (24 CP)

Specialization Modules (24 CP)

Elective Modules (24 CP)

Curriculum Structure of the M.Sc. Geosciences (2025/2026)

The M.Sc. Geoscience comprises 120 Credit Points (CP), consisting of the following components:

- Mandatory Modules - 18 CP
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= 120 CP

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Students who choose one of the Majors will have it listed on their final degree, e.g., M.Sc. Geosciences (Geology).

Mandatory Modules (18 CP)

Mandatory for all students

GEW-MM01: Topics in Earth System Science (2 Semester / 6 CP)

- Institute's Colloquium (1 Semester) **W / S**
- Working Group Seminars (1 Semester) **W / S**

GEW-MM02: Project Practical or Research Internship (2 Semester / 12 CP)

- Seminar (2 Semester) **W + S**
- including a 35 days or 280 hours practical placement

Core Modules (24 CP)

Major Geology (24 CP)

- GEW-MC01: **Sedimentary Earth System Record** (6 CP) (1 Semester) **W**
- GEW-MC02: **Tectonics and Geodynamics** (6 CP) (1 Semester) **W**
- GEW-MC03: **Data Analysis and Statistics** (6 CP) (1 Semester) **W**
- GEW-MC04: **Advanced Field Practical** (6 CP) (1 Semester) **S**

Major Geophysics (24 CP)

-  **GEW-MC05: Theoretical Geophysics (6 CP)** (1 Semester) **W**
-  **GEW-MC06: Geophysical Inversion and Data Analysis (12 CP / 2 Semester)** **W + S**
-  **GEW-MC07: Geophysical Laboratory (6 CP)** (1 Semester) **W**

Major Mineralogy & Petrology (24 CP)

- **GEW-MC10: Advanced Mineralogy-Petrology (6 CP)** (1 Semester) **W**
- **GEW-MC11: Applications of Mineralogy and Petrology (6 CP)** (1 Semester) **W**
- **GEW-MC12: Methods in Mineralogy and Petrology (6 CP)** (1 Semester) **W**
- **GEW-MC13: Advanced Methods in Mineralogy and Petrology (6 CP)** (1 Semester) **W**

Students who do not specialize in one of the three Majors can choose any 4 Modules from the list above according to their personal preferences (24 CP in total).

Specialization Modules (24 CP)

Major Geology (choose 4 modules = 24 CP)

- **GEW-MF010: Earth Surface Processes (6 CP)** (1 Semester) **W**
- **GEW-MF011: Earth Systems through Time (6 CP)** (1 Semester) **W**
- **GEW-MF012: Modern Carbonates (6 CP)** (1 Semester) **W**
- **GEW-MF013: Rates and Dates of Geological Processes (6 CP)** (1 Semester) **W**
- **GEW-MF014: Geo-Information Systems (6 CP)** (1 Semester) **W**
- **GEW-MF015: Sedimentary Systems Modelling (6 CP)** (1 Semester) **W**
- **GEW-RCM01: Remote Sensing of the Environment (6 CP)** (1 Semester) **W**
- **GEW-MF017: Active Tectonics (6 CP)** (1 Semester) **S**
- **GEW-MF018: Basin Analysis and Natural Resources (6 CP)** (1 Semester) **S**
- **GEW-MF019: Earth Observation and Modelling (6 CP)** (1 Semester) **W / S**
- **GEW-MF020: Field Exercise (6 CP)** (1 Semester) **W / S**

Specialization Modules (24 CP)

Major Geophysics (choose 4 modules = 24 CP)

- **GEW-MF110: Fundamentals of Digital Seismology (6 CP)** (1 Semester) **W**
- **GEW-MF111: Array Seismology (6 CP)** (1 Semester) **S**
- **GEW-MF112: Seismic Hazard Analysis (6 CP)** (1 Semester) **W**
- **GEW-MF113: Seismological Data Science with Application to Volcano Systems (6 CP)** (1 Semester) **S**
- **GEW-MF114: Seismic Methods (6 CP)** (1 Semester) **W**
- **GEW-MF115: Electrical and Electromagnetic Methods (6 CP)** (1 Semester) **W**
- **GEW-MF116: Potential Field Methods (6 CP)** (1 Semester) **S**
- **GEW-MF117: Field Course Applied Geophysics (6 CP)** (1 Semester) **S**

Specialization Modules (24 CP)

Major Mineralogy & Petrology (choose 4 modules = 24 CP)

- **GEW-MF210: Specialized Petrology (6 CP)** (1 Semester) **W**
- **GEW-MF211: Age Determination (6 CP)** (1 Semester) **S**
- **GEW-MF212: Physicochemical Mineralogy-Petrology (6 CP)** (1 Semester) **S**
- **GEW-MF213: Hands-On in Mineralogy and Petrology (6 CP)** (1 Semester) **W / S**
- **GEW-MF214: Current Topics in Mineralogy and Petrology (6 CP)** (1 Semester) **W / S**
- **GEW-MF215: Special Topics in Mineralogy and Petrology (6 CP)** (1 Semester) **S**

Students who do not specialize in one of the three majors can choose any 4 modules (24 CP in total) according to their personal preferences.

Elective Modules (24 CP)

Elective Modules may be freely chosen according to individual interests. Please note that these are container modules, each comprising several courses. Students may select only one course per module. [Please find the list of courses assigned to each module here.](#)

- **GEW-ME01: Modelling and exploring the Earth System (6 CP) | course options in this module**
- **GEW-ME02: Geosciences Across Scales (6 CP)**
- **GEW-ME03: Past and Present of the Earth System (6 CP)**
- **GEW-ME04: Modern Trends in Geosciences (6 CP)**
- **GEW-ME05: Geoscientific Data Science (6 CP)**
- **GEW-ME06: Special Remote Methods in Geosciences (6 CP)**
- **GEW-ME07: Special Topics in Geosciences (6 CP)**
- **GEW-ME08: Monitoring Techniques and Data Analysis in Geosciences (6 CP)**

Master's Thesis (30 CP)

After successfully completing at least 72 CP — including the compulsory module GEW-MM02 (Project Practical or Research Internship) and the Core Modules totaling 24 CP — students are entitled to be assigned a Master's thesis topic.

Student advisory service

Dr. Martin Timmerman | Mineralogie

Telefon: +49 331 977-5877

E-Mail: timmer@geo.uni-potsdam.de

Campus Golm | Haus 27, Zi. 0.39

Dr. Wolfgang Morgenroth | Mineralogie

Telefon: +49 331 977-5806

E-Mail: wolfgang.morgenroth@uni-potsdam.de

Campus Golm | Haus 27, Raum 1.28

Prof. Dr. Martin H. Trauth | Geologie

Telefon: +49 331 977-5810

E-Mail: trauth@geo.uni-potsdam.de

Campus Golm | Haus 27, Zi. 1.32

Dr. Julien Guillemoteau | Geophysik

Telefon: +49 331 977-5782

E-Mail: julien@geo.uni-potsdam.de

Campus Golm | Haus 27, Zi. 0.35

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Examination Board MSc Geowissenschaften / Geosciences

The Examination Board is responsible for the degree programs MSc Geowissenschaften (2010) and MSc Geosciences (2022). The board has been approved by the Faculty for Mathematics and Natural Sciences of the University of Potsdam on January 10, 2024.

Committee Members

Professors

Prof. Dr. Martin Trauth (Committee Chair)

Prof. Patrick O'Brien, PhD (Deputy chair)

Prof. Dr. Jens Tronicke

Academic Staff

Dr. Julien Guillemoteau

Dr. Martin Timmerman (Deputy)

Students

Tabea Reitemeiner

Arden Hochhausen (Deputy)

Secretariat

Martina Heidemann

Contact Examination Board MSc Geowissenschaften/Geosciences

Please send your application to the adress named below or hand your application to the secretariat. Emails with questions about the application process can be send to:

Examination Commmittee MSc Geowissenschaften/Geosciences

Institute for Geosciences

University of Potsdam

user name

passwort



Login

[Lost login data?](#)

Default language



English

Hochschulmitglieder

Bewerbende

Welcome

to the campus management system of the University of Potsdam - **PULS (Potsdamer Universitätslehr- und Studienorganisationsportal)** for students and teaching staff!

Using the selected tab "University Members", University of Potsdam students and teaching staff can find various features, which require a login with the central university account.

For University of Potsdam students:

After a successful log-in, students can:

- Submit **applications** to the Office of Student Affairs: e.g., to apply for another degree program, for a leave of absence, find payment information for re-registration and others (<https://www.uni-potsdam.de/en/studium/studying/organizing-your-studies>)
- **Download documents**: e.g., certificate of enrollment, confirmation of periods of study, and other documents relevant to your studies
- In addition, students studying in degree programs for which examination administration is managed centrally by the Division of Student Affairs can register for courses, register for examinations, plan their studies, and also submit applications and download documents (e.g., transcript of records).

For University of Potsdam teaching staff:

After logging in, teaching staff have access to the familiar PULS features for examination administration.

Note for prospective students and applicants:

If you would like to apply to study at the University of Potsdam and are not yet a student at the University of Potsdam, you will find important information under the "Applicants" tab and must first self-register for an account to use the portal.

Support:

If you have technical problems or questions about using the portal, please contact puls-team@uni-potsdam.de .

Liebe Studierende, liebe Lehrende,

um auf personenbezogene Funktionen zugreifen zu können loggen Sie sich bitte ein. Die Möglichkeit zum Login finden Sie oben rechts auf dieser Seite.

Verification of Documents

Please note that there are two different links for the Verification of Documents

If the verification key on the document is issued in three blocks of four characters each (SXYZ-SXYZ-SXYZ), please use this link: [Verification of Documents](#) .

For all other documents, please use this link: [Verification of Documents](#)

<https://puls.uni-potsdam.de/>

1. Registration for the module

Prerequisite for the recording of home work ("Prüfungsnebenleistungen", which in turn is a prerequisite for admission to the final examination.

2. Registration for the examination

Participation in the examination is not possible without registration for the examination. Registration or cancellation up to 8 calendar days before the examination.



Willkommen auf der zentralen E-Learning-Plattform **Moodle.UP** der Universität Potsdam.

Hilfe & Infos

Hilfe und Informationen für Nutzer finden Sie u.a. im **Hilfeforum**, auf der **Moodle.UP-Supportseite für die Online-Lehre** oder in der **offiziellen Moodle-Dokumentation**.

Die Verhaltensregeln finden Sie im **Code of Conduct**.

Infos für Lehrende

Um einen **neuen Kurs zu beantragen** nutzen Sie bitte folgendes **Kursantragsformular**.

Zum **Hinzufügen von weiteren Kursleiter:innen** finden Sie alle Infos in der **offiziellen Moodle-Dokumentation**.

Zum **Kopieren, Verschieben** oder **Löschen** eines Kurses finden Sie alle Infos auf der **Moodle-Supportseite**.

Gast-Accounts

Detaillierte Informationen zu Gast-Accounts finden Sie auf der **UP-Account-Webseite**.

Haben Sie Account-Probleme? Melden Sie sich gern via **ZIM-Supportanfrage**.

Moodle-Links

- Moodle.UP
- Open.UP
- Exam.UP
- Moodle-EFP
- Moodle.UP-Support
- ZIM
- ZfQ

Support

✉ moodle-team@uni-potsdam.de

☎ 0331 977-4357

<https://moodle2.uni-potsdam.de/>

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**Coordinators for the Federal Education
Assistance Act**

Study abroad with Erasmus+

Erasmus+ is a higher education program of the European Union that has been promoting cross-border mobility of students, university lecturers and university staff in Europe since 1987. The 28 EU countries, Iceland, Liechtenstein, Norway and Turkey participate in Erasmus+.

After completing your first year of study, you can receive funding through the Erasmus+ program for a study period of between three and twelve months at a host university abroad, up to and including your doctorate. So far, around two million students and nearly 200,000 faculty members have spent time abroad through this program across Europe.

Contact person for Erasmus+ at the Institute of Geosciences:

Dr. Julien Guillemoteau

Tel +49 331 977-5782

Email: julien@geo.uni-potsdam.de

Office hours by appointment

Partnerships of the Institute of Geosciences:

Country & Country information	Universities	Level of studies
➤ Belgium	➤ Universiteit Gent, Gent	BSc, MSc ⁽¹⁾
➤ Czech Republic	➤ Univerzita Karlova v Praze, Prag	BSc, MSc
➤ France	➤ Université Grenoble Alpes, Saint-Martin-d'Hères	BSc, MSc, PhD
➤ Great Britain	➤ University College London, London	BSc ⁽²⁾
➤ Island	➤ University of Island	MSc, PhD
➤ Greece	➤ Panepistimio Patron, Patras	BSc, MSc, PhD BSc, MSc, PhD BSc, MSc

Universität



Potsdam

Master Geosciences

