**- Unofficial consolidated reading version -**

The following is the wording of the examination regulations for the Bachelor's degree program “Geosciences” (full subject), as it results from

* the version of the regulations dated February 3, 2021 (Brem.OJ p. 395) and
* the regulations amending the subject-specific examination regulations for the Bachelor's degree program “Geosciences” (full subject) at the University of Bremen dated October 23, 2024 (Brem.OJ p. 138)

Information on the content of the individual amendment regulations and the entry into force of the regulations contained therein cannot be presented here.

**Subject-specific examination regulations for the Bachelor's degree course “Geosciences” (full subject) at the University of Bremen**

From October 23, 2024

These subject-specific examination regulations apply in conjunction with the General Part of the Examination Regulations for Bachelor's Degree Programs (AT BPO) at the University of Bremen dated January 27, 2010, as amended.

§ 1

**Scope of studies and degree**

(1) A total of 180 credit points (CP) must be earned in accordance with the European Credit Transfer and Accumulation System (ECTS) in order to successfully complete the Bachelor's degree course in Geosciences. This corresponds to a standard period of study of 6 semesters.

(2) The degree

Bachelor of Science (abbreviated to B.Sc.)

is awarded on successful completion of the Bachelor's examination.

§ 2

**Course structure, modules and credit points**

(1) The Bachelor's degree course in Geosciences is studied as a full Bachelor's degree course in accordance with Section 4 (1) (1) AT BPO. The General Studies area in accordance with Section 4(1)(1) AT BPO comprises 18 CP, of which 6 CP can be freely selected as part of a module from the supplementary studies at the University of Bremen, see module description for details.

(2) The degree program is structured as shown below:

a) Bachelor's thesis amounting to 12 CP;

b) Geoscientific fundamentals amounting to 54 CP;

c) Mathematical and scientific basics amounting to 36 CP;

d) Practical and professional skills in geosciences totaling 24 CP including the General Studies area with 18 CP;

e) specializations, i.e. compulsory elective modules amounting to a total of 54 CP. Three specializations in accordance with Annex 2.5, each worth 18 CP, must be completed in full. A change of specialization is only possible upon justified application to the Examination Board. The Examination Board will decide on the recognition of achievements in the area of specialization in the event of a change of specialization on an individual basis.

(3) Appendix 1 shows the recommended course of study, Appendix 2 regulates the examinations to be taken.

(4) Modules are carried out as compulsory or compulsory elective modules.

(5) The compulsory and compulsory elective modules provided in the curriculum are offered at least once a year.

(6) Compulsory modules are taught in German and compulsory elective modules in German and/or English. It is guaranteed that the course can be completed entirely in German.

(7) The courses assigned to the modules are indicated in the module descriptions.

(8) Courses are held in accordance with Section 6 (1) AT BPO. Other types of courses may be specified by decisions of the Rectorate.

(9) The degree program includes a compulsory work placement of 6 CP. The internship regulations regulate the proximity.

(10) Studying abroad is optional. Recognition of achievements should be discussed in advance with the relevant advisory service.

§ 3

**Examinations**

(1) Examinations are conducted in the forms specified in §§ 8 ff. AT BPO and the University of Bremen's regulations for conducting electronic examinations (DigiPrüfO UB/Digitalprüfungsordnung) in the currently valid versions: In addition, examinations may be conducted in the forms listed in Annex 3. In individual cases, the Examination Board may approve other forms of examination at the request of an examiner.

(2) A re-examination may be conducted in a form other than the original one in accordance with Section 20 (4) AT BPO.

(3) Students will be informed of the deadlines and scope of examinations at the beginning of the module.

(4) English may be the examination language in the compulsory elective courses taught in English.

(5) The compensation principle in accordance with Section 5 (8) AT BPO is not applied.

§ 4

**Recognition and crediting**

The recognition or crediting of achievements is carried out in accordance with § 22 AT BPO as amended.

§ 5

**Admission requirements for modules**

There are no admission requirements for modules except in the context of § 6 paragraph 2.

§ 6

**Bachelor's thesis module (including colloquium)**

(1) The Bachelor's thesis module (12 CP) includes the Bachelor's thesis and the colloquium.

(2) Proof of at least 120 CP is required to register for the Bachelor's thesis (incl. colloquium).

(3) The processing time for the Bachelor's thesis is 9 weeks. The Examination Board may approve a one-off extension of a maximum of 3 weeks upon justified request.

(4) The Bachelor's thesis is written as an individual work.

(5) The Bachelor's thesis is written in German or English, depending on the student's individual choice.

(6) A colloquium is held for the Bachelor's thesis. A joint module grade is calculated for the Bachelor's thesis and colloquium. The grade for the Bachelor's thesis accounts for 75% and the grade for the colloquium for 25% of the joint grade.

§ 7

**Overall grade of the Bachelor's examination**

Graded modules from the first to third semester (in accordance with the study plan) are included in the overall grade on the basis of the grades weighted with their credit points. All graded modules from the fourth to sixth semester (according to the study plan) are included in the overall grade with a double grade weighting. Ungraded modules are not included in the calculation.

§ 8

**Scope and entry into force**

(1) These examination regulations come into force after approval by the Rector on October 1, 2021. They will be published in the Official Gazette of the Free Hanseatic City of Bremen. They apply to students commencing their studies in the Bachelor's degree program “Geosciences” (full subject) for the first time from the winter semester 2021/22.

(2) Students who commenced their studies in the Bachelor's degree program “Geosciences” (full subject) before the winter semester 2021/22 may switch to the present examination regulations upon application. The application must be submitted to the responsible Examination Office by November 15, 2021. Achievements already completed will be recognized by the examination board depending on the individual situation.

(3) The examination regulations “Geosciences” (full subject) dated November 24, 2011 expire on September 30, 2024. Students who began their studies according to these examination regulations and have not completed their studies by September 30, 2024 will switch to the present examination regulations. The Examination Board decides on the recognition of achievements according to individual circumstances.

Annexes:

Annex 1: Study plan for the Bachelor's degree course in Geosciences (full subject)

Annex 2: Modules and examination requirements

Annex 3: Other forms of examination

**Appendix 1: Study plan for the Bachelor's degree program “Geosciences” (full subject)**

The study plan is a recommendation for the course of study. Students can take modules in a different sequence.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Geowissenschaftliche** | **Mathematisch-** | **Praktische und berufliche Kompe-** | **Bachelor-** | **Schwer-** | **∑** |
| **Grundlagen,** | **naturwissenschaftliche** | **tenzen der Geowissenschaften,** | **arbeit,** | **punkte,** | **180** |
| **54 CP** | **Grundlagen,** | **24 CP** | **12 CP** | **54 CP** | **CP** |
|  | **36 CP** | **Kompeten-****zen im** | **General Studies-Bereich,****18 CP** |  |  |  |
|  |  | **Gelände,** |  |  |  |  |
|  |  | **6 CP** |  |  |  |  |
| **1. Sem.** | BGW-EE1,Aufbau und | BGW-ME1,Vom Atom |  |  |  | BGW-CP1,Chemische | BGW-PP1-a,Physikalische | BGW-MP1,Mathemati- |  |  |  |  |  | 30 |
| Dynamik der | zum Mineral - | Grundlagen | Grundlagen | sche Grund- |  |
| Erde, | Mineralogie | der Geowis- | der Geowis- | lagen der |  |
| 6 CP | und Kristallo- | senschaften I, | senschaften I, | Geowissen- |  |
|  | graphie, | 6 CP | 6 CP | schaften I, |  |
|  | 6 CP |  |  | 6 CP |  |
| **2. Sem.** | BGW-EE2,Entwicklung | BGW-ME2,Strukturgeolo- |  |  |  | BGW-CP2-a,Chemische | BGW-PP2-a,Physikalische | BGW-MP2,Mathemati- |  |  |  |  |  | 30 |
| der Erde | gie und | Grundlagen | Grundlagen | sche Grund- |  |
| und des | Tektonik, | der Geowis- | der Geowis- | lagen der |  |
| Lebens, | 6 CP | senschaften II, | senschaften II, | Geowissen- |  |
| 6 CP |  | 6 CP | 6 CP | schaften II, |  |
|  |  |  |  | 6 CP |  |
| **3. Sem.** | BGW-ME3,Grundlagen | BGW-MP3-a,Grundlagen | BGW-CP3,Grundlagen | BGW-PP3-a,Grundlagen | BGW-EE3,Geowissen- |  |  |  |  |  |  |  |  | 30 |
| und Praxis | der ange- | der Petrolo- | der ange- | schaftliches |  |
| der Sedi- | wandten Geo- | gie und Pet- | wandten | Kartieren, |  |
| mentologie, | logie, | rographie, | Geophysik, | 6 CP |  |
| 6 CP | 6 CP | 6 CP | 6 CP |  |  |
| **4. Sem.** |  |  |  |  |  |  |  |  | BGW-GF1,Geowissen- | BGW-GS1,Digitale |  |  | Je nach Schwerpunkt- | 30 |
| schaftliche | Kompeten- | wahl |  |
| Kompetenz | zen, | 3 Module à |  |
| in Gelände- | 6 CP | 6 CP aus |  |
| arbeit, |  | Anlage 2.5 |  |
| 6 CP |  |  |  |

CP: Credit Points, Sem.: Semester, inkl.: inclusive

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Geowissenschaftliche** | **Mathematisch-** | **Praktische und berufliche Kompe-** | **Bachelor-** | **Schwer-** | **∑** |
| **Grundlagen,** | **naturwissenschaftliche** | **tenzen der Geowissenschaften,** | **arbeit,** | **punkte,** | **180** |
| **54 CP** | **Grundlagen,** | **24 CP** | **12 CP** | **54 CP** | **CP** |
|  | **36 CP** | **Kompeten- zen im** | **General Studies-Bereich, 18 CP** |  |  |  |
|  |  | **Gelände,** |  |  |  |  |
|  |  | **6 CP** |  |  |  |  |
| **5. Sem.** |  |  |  |  |  |  |  |  |  | BGW-GS2,Berufsprak- | BGW-GS3,Fachübergrei- |  | Je nach Schwer- | 30 |
| tische Kom- | fende Kompe- | punktwahl |  |
| petenzen, | tenzen, | 3 Module à |  |
| 6 CP | 6 CP | 6 CP aus |  |
|  |  | Anlage 2.5 |  |
| **6. Sem.** |  |  |  |  |  |  |  |  |  |  |  | BGW-BT1,Modul Ba- | Je nach Schwer- | 30 |
| chelorarbeit | punktwahl |  |
| (inkl. Kollo- | 3 Module à |  |
| quium), | 6 CP aus |  |
| 12 CP | Anlage 2.5 |  |

CP: Credit Points, Sem.: Semester, inkl.: inclusive

**Appendix 2: Modules and examination requirements**

**2.1: Bachelorarbeit (Bachelor Thesis), 12 CP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL (An-zahl) |
| BGW- BT1 | Modul Bachelorarbeit (Inklusive Kolloquium) | Module Bachelor Thesis (including Colloquium) | P | 12 | MP |  | PL: 2SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

**2.2: Geowissenschaftliche Grundlagen (Principles in Geosciences), Pflichtmodule (Compulsory Modules), 54 CP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- EE1 | Aufbau und Dynamik der Erde | Structure and Dy- namics of the Earth | P | 6 | KP |  | PL: 1SL: 1 |
| BGW- EE2 | Entwicklung der Er- de und des Lebens | Evolution of Earth and Life | P | 6 | MP |  | PL: 1SL: 0 |
| BGW- ME1 | Vom Atom zum Mi- neral – Mineralogie und Kristallographie | From Atoms to Mine- rals – Mineralogy and Crystallography | P | 6 | MP |  | PL: 1SL: 0 |
| BGW- ME2 | Strukturgeologie und Tektonik | Structural Geology and Tectonics | P | 6 | KP |  | PL: 1SL: 1 |
| BGW- ME3 | Grundlagen und Pra- xis der Sedimentolo-gie | Principles and Prac- tice of Sedimentol-ogy | P | 6 | MP |  | PL: 1SL: 0 |
| BGW- CP3 | Grundlagen der Petrologie und Petrographie | Principles of Petrology and Petrography | P | 6 | TP | Petrologie, 3 CP | PL: 1SL: 0 |
| Polarisationsmik- roskopie, 3 CP | PL: 1SL: 0 |
| BGW- PP3-a | Grundlagen der an- gewandten Geophy- sik | Principles of Applied Geophysics | P | 6 | TP | Grundlagen an-gewandte Geo- physik, 3 CP | PL: 1SL: 0 |
| Geophysikalische Stationsgelände- übung, 3 CP | PL: 1SL: 0 |
| BGW- MP3-a | Grundlagen der an- gewandten Geologie | Principles of Applied Geology | P | 6 | TP | Einführung Hydro- geologie, 3 CP | PL: 1SL: 0 |
| Einführung Geo- technologien,3 CP | PL: 1SL: 0 |
| BGW- EE3 | Geowissenschaftli- ches Kartieren | Geoscientific Mapping | P | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

**2.3: Mathematisch-naturwissenschaftliche Grundlagen (Principles in Mathematics and Science), Pflichtmodule (Compulsory Modules), 36 CP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- CP1 | Chemische Grundla- gen der Geowissen- schaften I | Chemical Principles of Geosciences I | P | 6 | MP |  | PL: 1SL: 0 |
| BGW- CP2-a | Chemische Grundla- gen der Geowissen- schaften II | Chemical Principles of Geosciences II | P | 6 | TP | Einführung in die Geochemie, 4 CP | PL: 1SL: 0 |
| Laborpraktikum Allgemeine Chemie, 2 CP | PL: 0SL: 1 |
| BGW- PP1-a | Physikalische Grundlagen der Geowissenschaften I | Physical Principles of Geosciences I | P | 6 | TP | Physik für Natur- wissenschaft- ler\*innen I, 4 CP | PL: 1SL: 1 |
| Physik der Erde I, 2 CP | PL: 1SL: 0 |
| BGW- PP2-a | Physikalische Grundlagen der Geowissenschaf- ten II | Physical Principles of Geosciences II | P | 6 | TP | Physik für Natur- wissenschaft- ler\*innen II, 4 CP | PL: 1SL: 1 |
| Physik der Erde II, 2 CP | PL: 1SL: 0 |
| BGW- MP1 | Mathematische Grundlagen der Geowissenschaften I | Mathematical Principles of Geosci- ences I | P | 6 | MP |  | PL: 1SL: 0 |
| BGW- MP2 | Mathematische Grundlagen der Geowissenschaf-ten II | Mathematical Principles of Geosci- ences II | P | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

**2.4: Praktische und berufliche Kompetenzen der Geowissenschaften (Practical and Professional Competences in Geosciences), 24 CP**

2.4.1 Kompetenzen im Gelände (Field Competences), 6 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-fer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- GF1 | Geowissenschaftliche Kompetenz in Gelän-dearbeit | Geoscientific Field Competence | P | 6 | KP |  | PL: 2SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.4.2 General Studies-Bereich, 18 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- GS1 | Digitale Kompeten- zen | Digital Competences | P | 6 | MP |  | PL: 0SL: 1 |
| BGW- GS2 | Berufspraktische Kompetenzen | Professional Compe- tences | P | 6 | MP |  | PL: 0SL: 1 |
| BGW- GS3 | Fachübergreifende Kompetenzen | Interdisciplinary Competences | P | 6 | KP |  | PL: 0SL: i.d.R.: 3 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

**2.5: Schwerpunktbereich (Specializations), Wahlpflichtmodule (Compulsory Elective Modules), total 54 P**

Three specializations, each with 18 CP, i.e. a total of 54 CP, must be completed in full; please note the regulations in § 2 paragraph 2 letter e.

2.5.1 Exploration Geophysics, 18 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW-EG1 | Marine Geophysics | WP | 6 | KP |  | PL: 2SL: 0 |
| BGW-EG2 | Material Properties and Structural Imaging | WP | 6 | MP |  | PL: 1SL: 0 |
| BGW-EG3-a | Non-Seismic Exploration | WP | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.2 Geodynamics, 18 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW-GD1 | Geodynamic and Plate Tectonic Principles | WP | 6 | MP |  | PL: 1SL: 0 |
| BGW-GD2-a | Seismology and Earth’s Potential Fields | WP | 6 | KP |  | PL: 2SL: 0 |
| BGW-GD3 | Geodynamic Modeling | WP | 6 | KP |  | PL: 2SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.3 Hydro- und Ingenieurgeologie (Hydrogeology and Engineering Geology), 18 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- HI1 | Grundlagen der Hydro- und Ingeni- eurgeologie | Principles of Hydro- and Engineering Geology | WP | 6 | KP |  | PL: 3SL: 1 |
| BGW- HI2-a | Methoden der Hydro- und Ingenieurgeologie | Methods of Hydro- and Engineering Geology | WP | 6 | TP | Altlasten, 3 CP | PL: 1SL: 0 |
| Hydrogeologische Praxis, 3 CP | PL: 1SL: 0 |
| BGW- HI3-a | Regionale und angewandte Hydrogeologie | Regional and Applied Hydrogeo- logy | WP | 6 | TP | Hydrogeologische Prozesse, 3 CP | PL: 1SL: 0 |
| Regionale Hydro- geologie, 3 CP | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.4 Kristalline Materialien (Crystalline Materials), 18 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- KM1 | Kristalline Materia- lien verstehen | Understanding Crys- talline Materials | WP | 6 | MP |  | PL: 1SL: 0 |
| BGW- KM2 | Kristalline Materia- lien untersuchen | Investigating Crystal- line Materials | WP | 6 | MP |  | PL: 1SL: 0 |
| BGW- KM3 | Kristalline Materia- lien verarbeiten | Processing Crystal- line Materials | WP | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.5 Petrologie und Lagerstättenkunde (Petrology and Reservoir Deposits), 18 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, deutsch | Modultitel, engli- sche Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BGW- PL1-a | Petrologie und Vulkanologie | Petrology and Vol- canology | WP | 6 | TP | Vulkanologie, 2 CP | PL: 1SL: 0 |
| Thermodynamik und Phasenlehre, 2 CP | PL: 1SL: 0 |
| Petrographische Übungen, 2 CP | PL: 1SL: 0 |
| BGW- PL2 | Geochemie und Metamorphose | Geochemistry and Metamorphism | WP | 6 | MP |  | PL: 1SL: 0 |
| BGW- PL3-a | Magmatische Sys- teme und Lager- stätten | Magmatic Systems and Reservoir Deposits | WP | 6 | TP | Magmatische Petro- logie, 3 CP | PL: 1SL: 0 |
| Bildung minerali- scher und metalli-scher Lagerstätten, 3 CP | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.6 Sedimentology, 18 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BMG-SE1 | Sedimentology of Coast and Shelf | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-SE2 | Deep-Sea Sedimentology | WP | 6 | KP |  | PL: 2SL: 0 |
| BMG-SE3-a | Sedimentary Processes | WP | 6 | TP | Basic Concepts of Sedi- ment Dynamics, 3 CP | PL: 1SL: 0 |
| Coastal Processes, 3 CP | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.7 Paleontology, 18 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BMG-PA1 | Introduction to Paleontology and Paleoecology | WP | 6 | TP | Introduction to Paleon- tology, 3 CP | PL: 1SL: 0 |
| Introduction to Paleo- ecology, 3 CP | PL: 1SL: 0 |
| BMG-PA2 | Marine Micropaleontology | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-PA3-a | Paleontological Methods | WP | 6 | TP | Laboratory Methods in Paleontology, 3 CP | PL: 1SL: 0 |
| Quantitative Methods in Paleontology, 3 CP | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.8 Geochemistry, 18 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BMG-GC1 | Geochemical Processes and Cycles, Isotope Geochemistry | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-GC2-a | Principles and Methods of Organic Geochemistry | WP | 6 | TP | Basics of Organic Ge- ochemistry, 2 CP | PL: 1SL: 0 |
| Lab Course in Organic Geochemistry, 4 CP | PL: 1SL: 0 |
| BMG-GC3 | Applied Geochemistry | WP | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.9 Geoinformatics, 18 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BMG-GI1 | Research Data Management and Analysis | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-GI2 | Data Visualization | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-GI3 | Earth-System Modeling and Data Analysis | WP | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

2.5.10 Paleoceanography, 18 CP

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| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL(Anzahl) |
| BMG-PO1 | Paleoceanography and Environ- mental Change | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-PO2 | Paleoceanography – Core Lab or Field Studies | WP | 6 | MP |  | PL: 1SL: 0 |
| BMG-PO3 | From Past to Future Ocean Conditions | WP | 6 | MP |  | PL: 1SL: 0 |

K.-Ziffer: code number; P: compulsory module, WP: compulsory elective module, W: elective module; CP: Credit Points; MP: module examination, TP: partial examination, KP: combination exam; PL: examination achievement (= graded), SL: study achievement (= not graded)

**Appendix 3: Further forms of examination**

a) Excursion report: detailed written report on one or parts of a field exercise or excursion. A submission deadline must be set. An excursion report can be prepared as group work.

b) Mapping report: detailed written report on a geoscientific mapping exercise with a self-generated geological map and, if applicable, several geological profile sections through the mapping area. A mapping report can be prepared as group work. A submission deadline must be set.

c) Portfolio in the form of the completion of exercises: written completion of several exercises issued during the course. At least 50% of the exercises must be passed in order to pass the examination. The performance is summarized and graded according to § 8 paragraph 8 AT BPO.