**- Unofficial consolidated reading version -**

The following is the wording of the examination regulations for the Master's degree program “Applied Geosciences”, as it results from

* the version of the regulations dated February 3, 2021 (Brem.OJ p. 458) and
* the regulations amending the subject-specific examination regulations for the Master's degree program “Applied Geosciences” at the University of Bremen dated October 23, 2024 (Brem.OJ p. 152)

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 Master's degree course “Applied Geosciences” 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 Master's Degree Programs (AT MPO) at the University of Bremen dated January 27, 2010, as amended.

§ 1

**Scope of studies and degree**

(1) A total of 120 credit points (CP) must be earned in accordance with the European Credit Transfer and Accumulation System (ECTS) in order to successfully complete the Master's degree course in „Applied Geosciences“. This corresponds to a standard period of study of 4 semesters.

(2) The degree

Master of Science (abbreviated to M.Sc.)

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

§ 2

**Course structure, modules and credit points**

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

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

a) Master's thesis amounting to 30 CP;

b) Project Studies and Scientific Training amounting to 30 CP;

c) Core Subjects amounting to 36 or 48 CP, for details see Appendix 2.2. At least three of the designated core subjects amounting to 36 CP or a maximum of four amounting to a total of 48 CP must be completed. Cooperation agreements exist with the Master's degree programs “Environmental Physics” and “Physical Geography: Environmental History”. Modules from these degree programs (see Appendix 2.2.2) as well as modules from the Master's degree program “Marine Geosciences” (see Appendix 2.2.3) of Faculty 5 also represent a core subject amounting to 12 CP.

d) Professionalization and Complementary Competences, which must be completed in the amount of 12 or 24 CP depending on the amount of core subjects taken. For more details, see Appendix 2.4.

(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 English and compulsory elective modules in German and/or English.

(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.

§ 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 Appendix 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 is the examination language, German may be the examination language in the compulsory elective courses taught in German.

(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

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

(1) The „Module Master Thesis“ (30 CP) includes the Master's thesis and the colloquium amounting to 30 CP.

(2) Proof of at least 60 CP including the module „Reseach Seminar“ is required to register for the Master's thesis.

(3) The processing time for the Master's thesis is 24 weeks. The Examination Board may approve a one-off extension of a maximum of 6 weeks upon justified request.

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

(5) The Master's thesis is written in English or German.

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

§ 7

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

The overall grade is calculated from the grades of the modules weighted with credit points. 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 Master's degree program “Applied Geosciences” for the first time from the winter semester 2021/22.

Appendixes:

Appendix 1: Study plan for the Master's degree course in „Applied Geosciences“

Appendix 2: Modules and examination requirements

Appendix 3: Other forms of examination

**Appendix 1: Study plan for the master's degree program “Applied Geosciences”**

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Project Studies and Scientific Training, 30 CP** | | **Professionalization and Complementary Competences,**  **12 CP or 24 CP** | | **Core Subjects, 48 CP or 36 CP** | **Master Thesis, 30 CP** | **∑ 120**  **CP** |
| **1. Year** | **1. Sem.** |  | | MAG-PG1,  Advanced Geological Mapping, 6 CP | 1 or 3 modules à 6 CP according to  § 2 paragraph 2, see also appendix 2.4 | 3 or 4 „Core Subjects“ à 12 CP according § 2 paragraph 2, see also  appendix 2.2 |  | 60 |
| **2. Sem.** |  | |  |
| **2. Year** | **3.Sem,** | MAG-RS1,  Research  Seminar, 15 CP | MAG-GP1,  Geoscien-  tific Project, 15 CP |  |  |  |  | 30 |
| **4. Sem.** |  | |  |  |  | MAG-MT1,  Module Master Thesis (incl. Collo- quium),  30 CP | 30 |

CP: Credit Points, Sem.: Semester, incl.: including

**Appendix 2: Modules and examination requirements**

**2.1: Master Thesis, 30 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) |
| MAG- MT1 | Modul Masterarbeit (inklusive Kolloquium) | Module Master Thesis (including Colloquium) | P | 30 | MP |  | PL: 2  SL: 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: Core Subjects, Compulsory Elective Modules, 36 or 48 CP**

At least three of the designated core subjects amounting to 36 CP and a maximum of four amounting to 48 CP must be completed in full. A chosen core subject must be completed in full, so when the first module in a core subject is chosen, the second module becomes a compulsory module. Changing a core subject that has already been selected can only be done upon application to the Examination Board. The Examination Board decides on the recognition of examination achievements on an individual basis.

**2.2.1 Core Subjects (of the study program Applied Geosciences)**

2.2.1.1 Applied Geophysics, 12 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-  fer | Modultitel, deutsch | Modultitel, engli- sche Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG- AG1 | Angewandte Geo- physik – Methoden | Applied Geophy- sics – Methods | WP (P im Core Subject) | 6 | KP |  | PL: 3  SL: 0 |
| MAG- AG2 | Angewandte Geo- physik – Projekte | Applied Geophy- sics – Projects | WP (P im Core Subject) | 6 | KP |  | PL: 3  SL: 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)

2.2.1.2 Applied Petrology, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG-AP3 | Active Tectonic, Magmatic and Volcanic Processes | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MAG-AP2 | Petrological Methods in Ore Geology | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 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)

2.2.1.3 Angewandte Sedimentologie (Applied Sedimentology), 12 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-  fer | Modultitel, deutsch | Modultitel, engli- sche Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG- AS1 | Angewandte Sedimentologie Grundlagen | Applied Sedimentology Fundamentals | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MAG- AS2 | Angewandte  Sedimentologie Projekte | Applied  Sedimentology Projects | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 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)

2.2.1.4 Geohazards, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG-GH1 | Hazard – Risk Assessment | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MAG-GH2 | Environmental Hazards | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 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)

2.2.1.5 Glaciology, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG-GL1 | Glaciology I | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MAG-GL2-a | Glaciology II | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 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)

2.2.1.6 Hydrogeologie (Hydrogeology), 12 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-  fer | Modultitel, deutsch | Modultitel, engli- sche Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG- HG1-a | Grundwasserbe- schaffenheit | Groundwater Characteristics | WP  (P im Core Subject) | 6 | TP | Grundwasserbe- schaffenheit, 3 CP | PL: 1  SL: 0 |
| Tracer/Isotopenhy- drogeologie, 2 CP | PL: 1  SL: 0 |
| Angewandte Hydro- geologie, 1 CP | PL: 1  SL: 0 |
| MAG- HG2-a | Grundwasser- analytik und hyd-  raulische Model- lierung | Groundwater Analysis and Hy- draulic Modeling | WP  (P im  Core Subject) | 6 | TP | Hydraulische Model- lierung, 3 CP | PL: 1  SL: 0 |
| Chemische Hydro- geologie, 3 CP | PL: 1  SL: 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)

2.2.1.7 Ingenieurgeologie (Engineering Geology), 12 CP

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-  fer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL (An-  zahl) |
| MAG- | Ingenieurgeolo- | Engineering Geology – | WP | 6 | TP | Ingenieurgeolo- | PL: 1 |
| IG1-a | gie – fortgeschrit- | Advanced Methods | (P im |  |  | gie, 3 CP | SL: 0 |
|  | tene Methoden |  | Core |  |  | Ingenieurgeolo- | PL: 1 |
|  |  |  | Subject) |  |  | gisches Prakti- | SL: 0 |
|  |  |  |  |  |  | kum, 3 CP |  |
| MAG- | Ingenieurgeolo- | Engineering Geol- | WP | 6 | KP |  | PL: 2 |
| IG2 | gie/Geotechnik – | ogy/Geotechnics – | (P im |  |  | SL: 0 |
|  | Wissenschaftsfel- | Scientific Fields and | Core |  |  |  |
|  | der und Ingenieur- | Technical Engineering | Subject) |  |  |  |
|  | technische Bemes- | Calculation |  |  |  |  |
|  | sung |  |  |  |  |  |

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)

2.2.1.8 Renewable Energy Resources, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG-RE1 | Renewable Energy  Resources I – Renewable Energy in the Earth System | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 0 |
| MAG-RE2 | Renewable Energy Resources II – Offshore Wind Energy | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 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)

**2.2.2 Core Subjects (in accordance with the cooperation agreement with Faculty 1 and Faculty 8 of the University of Bremen)**

2.2.2.1 Climatology, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| PG-CL | Climatology I | WP (P im Core Subject) | 6 | KP |  | PL: 1  SL: 1 |
| PG-CL2 | Climatology II | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 1 |

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)

2.2.2.2 Lacustrine Environmental Archives, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| PG-EA | Lacustrine Environmental Archives I | WP (P im Core Subject) | 6 | KP |  | PL: 1  SL: 1 |
| PG-EA2 | Lacustrine Environmental Archives II | WP (P im Core Subject) | 6 | KP |  | PL: 1  SL: 2 |

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)

2.2.2.3 Vegetation History and Archaeobotany, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| PG-VA | Vegetation History and Archaeobotany I | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 0 |
| PG-VA2 | Vegetation History and Archaeobotany II | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 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)

2.2.2.4 Environmental Physics, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| AMMDA | Applied Mathematical Meth- ods and Data Analysis | WP | 6 | MP |  | PL: 1  SL: 0 |
| PhyO1 | Physical Oceanography I | WP | 6 | MP |  | PL: 1  SL: 0 |
| PhyO2 | Physical Oceanography II | WP | 3 | MP |  | PL: 1  SL: 0 |
| CliS1 | Climate System I | WP | 3 | KP |  | PL: 1  SL: 1 |
| MES | Modelling of the Earth System | WP | 3 | MP |  | PL: 1  SL: 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)

**2.2.3 Core Subjects (from the master’s degree program Marine Geosciences)**

2.2.3.1 Biogeochemistry, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-BG1 | Biogeochemical Processes: Concepts | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MMG-BG2 | Biogeochemical Processes: Projects | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 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)

2.2.3.2 Climate Change, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-CC1 | Climate Change 1: Fundamentals | WP (P im Core Suject) | 6 | MP |  | PL: 1  SL: 0 |
| MMG-CC2 | Climate Change 2: Models and Data | WP (P im Core Suject) | 6 | MP |  | PL: 1  SL: 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)

2.2.3.3 Environmental Archives, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-EA1 | Environmental Archives Methods | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MMG-EA2 | Environmental Archives Projects | WP (P im Core Subject)) | 6 | MP |  | PL: 1  SL: 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)

2.2.3.4 Marine Geobiology, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-GB1 | Evolution of Marine Ecosystems | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 1 |
| MMG-GB2 | Marine Molecular Geobiology | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 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)

2.2.3.5 Marine Resources, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, eng- lisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-MR1-a | Continental Mar- gin Resources | WP (P im Core Subject) | 6 | TP | Hydrocarbon Formation and Petroleum Exploration, 2 CP | PL: 1  SL: 0 |
| Applied Petroleum Explora- tion, 4 CP | PL: 1  SL: 0 |
| MMG-MR2-a | Deep Sea Resources | WP (P im Core Subject) | 6 | TP | Gas Hydrates, Formation, Detection, Relevance, 2 CP | PL: 1  SL: 0 |
| Marine Resources in Space and Time, 4 CP | PL: 1  SL: 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)

2.2.3.6 Ocean Crust Evolution, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-OC1 | Magmatic and Hydrothermal Processes | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 0 |
| MMG-OC2 | Geophysics of Plates, Mantle and Margins | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 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)

2.2.3.7 Sedimentary Structures, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG-SS1 | Sedimentary Structures of Shelves and Passive Margins | WP (P im Core Subject) | 6 | KP |  | PL: 2  SL: 0 |
| MMG-SS2 | Sedimentary Structures of Active Margins | WP (P im Core Subject) | 6 | MP |  | PL: 1  SL: 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)

2.2.3.8 Marine Technology, 12 CP

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| K.-Ziffer | Modultitel, englisch | Modultyp P/WP/W | CP | MP/TP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG- TE1-a | Geophysical Surveying and Observation Tech- nology | WP (P im Core Subject) | 6 | TP | Geophysical Surveying Stra- tegies and Planning, 3 CP | PL: 1  SL: 0 |
| Observation Technologies, 3 CP | PL: 1  SL: 0 |
| MMG- TE2 | Drilling, In-Situ Mea- surements, Robotic Systems | WP (P im Core Subject) | 6 | KP |  | PL: 3  SL: 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: Project Studies and Scientific Training, Compulsory Modules, 30 CP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-  fer | Modultitel, deutsch | Modultitel, englische Übersetzung | Modultyp P/WP/W | CP | MPTP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MAG- GP1 | Geowissenschaft- liche Projektübung | Geoscientific Project | P | 15 | KP |  | PL: 2  SL: 0 |
| MAG- RS1 | Forschungs- seminar | Research Seminar | P | 15 | KP |  | PL: 3  SL: 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: Professionalization and Complementary Competences, 12 or 24 CP**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| K.-Zif-  fer | Modultitel, deutsch | Modultitel, englische Übersetzung bzw. englischer Titel | Modultyp P/WP/W | CP | MPTP/KP | Aufteilung der CP bei TP | PL/SL  (Anzahl) |
| MMG- PD1 |  | Advanced Digital Competences | WP | 6 | KP |  | PL: 2  SL: 0 |
| MAG- PD2 | Zusatzqualifikatio- nen | Complementary Competences | WP | 6 | KP |  | PL: 0  SL: i.d.R. 2 |
| MAG- PG1 | Fortgeschrittene Geologische  Kartierung | Advanced Geological Mapping | P | 6 | MP |  | PL: 1  SL: 0 |
| MAG- PG2 | Gelände- und Laborpraxis | Field and Lab Practice | WP | 6 | KP |  | PL: 2  SL: 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) Exposé: the presentation of the state of knowledge, scientific motivation, hypotheses and objectives of a research project combined with its implementation (strategy, methodology, timetable).

b) 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.

c) 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.

d) Bonus examinations: voluntary coursework that can only have a positive effect on the grade of the module examination. Bonus examinations not taken have no negative effect on the module grade.

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