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**DRAFT**

**Examination and Study Regulations  
of the Ludwig-Maximilians-University Munich  
for the Master's Program Geology (2013)**

**from #**

*Notice: this English translation is for your convenience. Only the original German version of this document is legally binding.*

On the basis of Article 13 paragraph 1 sentence 2, in conjunction with Article 58 paragraph 1 sentence 1, and with Article 61 paragraph 2 sentence 1 of the Bavarian Higher Education Act, the Ludwig-Maximilians-University Munich shall adopt the following statute:

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## I. General

### § 1 Subject of the degree program and purpose of the Master exam

(1) <sup>1</sup>The Master Program in Geology deals with the quantitative research and analysis of the Earth by geological and scientific methods. <sup>2</sup>It deals with interdisciplinary, rapidly changing topics concerning the complex process cycles of the lithosphere and its interaction with neighboring spheres (eg asthenosphere, hydrosphere, cryosphere, atmosphere, pedosphere). <sup>3</sup>The characteristics of the program are the quantification of field observations at various scales as well as interdisciplinary opportunities for specialization and freedom of choice on the various aspects of lithosphere deformation, Earth surface processes, and application-oriented and socially relevant exploration of natural resources and natural hazards (earthquakes, volcanoes, glaciers, impacts, natural raw materials of the solid Earth like gold, silver, copper, rare earths, etc.). <sup>4</sup>The strongly research-oriented master's degree program provides a strong field component, methods to quantify field observations, as well as a deeper theoretical framework for understanding the complex interactions of geoscientific processes. <sup>5</sup>The training enables one to work at the interface of different geological topics in applied research, industry and public organizations. <sup>6</sup>Prerequisites for successful studies are sound geological and scientific knowledge, good spatial thinking skills, adaptability to working in foreign cultures and remote areas under difficult conditions, openness to the complexity of geology, reasoning skills, unprejudiced thinking, precise documentation and quantification of observations at different scales, and critical review of results.

(2) <sup>1</sup>The Master's examination that accompanies the course of studies (§ 9 Abs. 1) constitutes the qualifying degree of Master Program in Geology. <sup>2</sup>The Master's examination determines whether the student has an overview of the context of the subject and can critically evaluate it, whether he/she has the ability to apply the scientific methods and knowledge, and whether he/she has acquired the necessary expertise for the transition into professional practice.

(3) <sup>1</sup>As part of the courses of this Master program core competencies are also taught. <sup>2</sup>Core competencies are in particular

1. ability to research, evaluate, condense and structure knowledge and information,
2. informational overview of the relevant knowledge areas of each subject,
3. integrated thinking,
4. organizational and transfer skills
5. information and media competence,
6. learning and presentation techniques,
7. communication skills,
8. teamwork and communication skills, also in gender-specific aspects,
9. language skills and
10. IT knowledge and skills.

(4) The courses and the associated module exams and partial module exams are held exclusively in English.

## **§ 2 Academic Degree**

The Faculty of Geosciences bestows upon those who have successfully completed this Master's Program the academic degree of "Master of Science" (abbreviated "M.Sc.").

## **§ 3 Admission Requirements**

(1) <sup>1</sup>Prerequisite for enrollment in this Master Program is proof of a qualifying university degree or an equivalent degree, either from a domestic or foreign institution, from a degree program of at least six semester duration, specializing in geology, geosciences, earth sciences, geophysics, geochemistry, mineralogy, petrology, oceanography, engineering geology, resource geology, or related geoscience or scientific disciplines. <sup>2</sup>Additional entry requirements may be specified in a separate statute of the Ludwig-Maximilians-University Munich.

(2) The existence of the prerequisites within the meaning of paragraph 1 is decided in the enrollment process in consultation with the relevant Examination Board.

(3) If the prerequisites of paragraph 1 are not present, participation to module exams and partial module exams is deemed as not having taken place, unless a later submission of proof of the prerequisites of paragraph 1 was explicitly authorized and supplied by a set deadline.

## **§ 4 Central Student Advisory Office and Academic Counseling**

(1) <sup>1</sup>The Central Student Advisory Office (*Zentrale Studienberatung*) at the Ludwig-Maximilians-Universität München provides information and advice, particularly concerning general problems. <sup>2</sup>It should be used by the students especially before the beginning of studies, in case of a planned change of program, and in all matters relating to restrictions of admission.

(2) <sup>1</sup>The academic counseling is carried out under the responsibility of the Faculty of the appropriate academic counselor (*Fachstudienberater*).

<sup>2</sup>The consultation covers in particular matters of content and time planning of studies.

<sup>3</sup>Information on matters concerning exams or crediting of coursework and examinations, is provided in particular by the members of the Examination Board (*Prüfungsausschuss*) and/or by the Examination Office (*Prüfungsamt*).

## **II. Duration, Structure and Sequence of Studies**

### **§ 5**

#### **Start of Studies, Standard Length of Studies, Contact Hours per Week**

- (1) The study in this Master's program may be started only in the winter semester.
- (2) <sup>1</sup>The program normally lasts four semesters, including the time for the Master's thesis. <sup>2</sup>A maximum of 59 contact hours per week (SWS) are required.

### **§ 6**

#### **ECTS points**

- (1) <sup>1</sup>In the context of this Master's program, a total of 120 points according to the European Credit Transfer System (ECTS) will be acquired. <sup>2</sup>ECTS points are a quantitative measure of the overall workload of the student. <sup>3</sup>This includes both the direct teaching of all activities described in § 8 paragraph 1 sentence 2, as well as the time for reviewing and revising (classroom and individual study), the exam preparation and the exam itself. <sup>4</sup>One ECTS point corresponds to a workload of 30 hours, so that the workload per semester is 900 hours within the standard period of study (§ 5 Abs. 2 sentence 1).
- (2) <sup>1</sup>Each semester, the student should acquire the ECTS points indicated in Appendix 2/column 18. <sup>2</sup>ECTS points are awarded only for passed modules (§ 10 paragraph 4 sentence 2).

### **§ 7 Modularization and modules**

- (1) <sup>1</sup>The study in this Master's program is modular and regulated in a legally-binding manner in Appendix 2. <sup>2</sup>Empty cells in Appendix 2 have no legal content.
- (2) <sup>1</sup>The study in this Master's program encompasses mandatory modules and required elective modules. <sup>2</sup>Mandatory modules must be completed without exception; from the pool of required elective modules the student may make a selection. <sup>3</sup>No more than the necessary number of required elective modules may be selected. <sup>4</sup>A required elective module is selected at the latest by participation in the corresponding module exam or partial module exam; the choice is irrevocable.
- (3) A module represents a collection of thematically and chronologically synchronized courses, as well as a module exam or one or more partial module exams, which are assessed according to the specific number of ECTS points required for successful participation pursuant to § 6 paragraph 1.
- (4) <sup>1</sup>According to the stipulations of Appendix 2, a module usually spans one, and at most two semesters. <sup>2</sup> The scope of a module is shown in the Appendix 2/18 column in multiples of three ECTS credits.
- (5) The participation in modules depends on the fulfillment of prerequisites; the details are given in Appendix 2 / Column 2.

(6) In Appendix 2 are listed

- 1, the modules,
2. their assignment to one or more semesters,
3. their prerequisites (Appendix 2 / Column 2),
4. type of module (mandatory or required elective module - Appendix 2 / column 3), for required elective modules the selection rules are also specified,
5. the prefix of the modules (Appendix 2 / column 4),
6. the names of the modules (Appendix 2 / column 5),
7. the frequency of occurrence (semester or year) of the modules (Appendix 2 / column 6),
8. the ECTS points awarded for passing the module (Appendix 2 / Column 18).

## § 8 Courses

(1) <sup>1</sup>The goals and objectives of the studies and the core competencies (§ 1 para. 3) are taught in the courses and teaching formats listed in Appendix 2 / columns 8 and 9. <sup>2</sup>In Appendix 2 / columns 8 and 9 the following teaching formats may be listed:

1. Lectures,
2. Exercises,
3. Field exercises,
4. Seminars,
5. Workshops,
6. Integrated learning activities,
7. Personal consultations,
8. Projects.

<sup>3</sup>A field exercise is an exercise that takes place outdoors. <sup>4</sup>The students are supervised continuously and intensively in small groups. <sup>5</sup>The field exercise "Field Mapping and Exploration" (P 1.2) lasts between 12 and 15 days; the field exercises "Quantitative Geological Mapping 2" (P 9.0.3 und WP 4.0.14) and "Lidar and GPS mapping" (P 9.0.13) each last between 5 and 15 days. <sup>6</sup>A workshop is the exchange and development of learning content, preferably in the form of block or short courses. <sup>7</sup>An integrated learning activity is a course in which students learn through active and passive participation in the theoretical and practical aspects of a topic. <sup>8</sup>A personal consultation is the individual attention to the student as part of a guided scientific research by an expert supervisor. <sup>9</sup>A project is a guided scientific research activity. <sup>10</sup>The project "Research laboratory" (P 8.2) extends over a period of 165 hours.

(2) <sup>1</sup>The teaching formats referred to in paragraph 1 can also be offered in whole or in part outdoors, including coastal areas and mountain regions. <sup>2</sup>The specific location may require that the students have adequate physical fitness. <sup>3</sup>Students who do not satisfy this requirement are offered a modified or an alternate educational activity.

(3) All courses are assigned to modules.

(4) <sup>1</sup>The study in this Master's program comprises mandatory and required elective courses. <sup>2</sup>Mandatory courses must be completed without exception; the student may select from the pool of elective courses. <sup>3</sup>No more than the necessary number of required elective courses may be chosen. <sup>4</sup>A required elective course is selected at the latest by participation in the corresponding module exam or partial module exam; the selection is irrevocable.

(5) Appendix 2 lists

1. courses,
2. type of courses (mandatory or elective course - Appendix 2 / column 3), for required elective courses the selection rules are also specified,
3. the frequency of occurrence (semester or year) of courses (Appendix 2 / column 6),
4. their assignment to a module,
5. their assignment to one or more semesters,
- 6 their prerequisites (Appendix 2 / Column 7),
7. the prefix of the courses (Appendix 2 / column 4),
8. the names of the courses (Appendix 2 / column 8),
9. the teaching format of the course (Appendix 2 / Column 9),
10. the contact hours per week (Appendix 2 / Column 10)
11. the ECTS points assigned to the course (Appendix 2 / Column 18).



### **III. Master examination**

#### **1. Module Exams and Partial Module Exams**

##### **§ 9 Module exams and partial module exams as part of the Master exam**

(1) The Master exam consists of module exams and partial module exams.

(2) <sup>1</sup>Each module ends, in accordance with Appendix 2, with either a module exam or a certain number of partial module exams. <sup>2</sup>If a module exam or partial module exam is passed, the associated ECTS points are recorded in the personal account (§ 12) of the student. <sup>3</sup>If a module exam is carried out by multiple instructors, without it being a partial module exam, the provisions for partial module exams shall apply.

(3) In the module exam or in the partial module exam or in the sum of the partial module exams of each module, the student should demonstrate that he/she has acquired the knowledge and skills, which pertain to the courses assigned to that module in Appendix 2 / columns 7-10.

(4) <sup>1</sup>In Appendix 2 are listed

1. the module exams and partial module exams,
2. their assignment to a module and, if necessary, to a course,
3. their assignment to a semester (regular deadlines - Appendix 2 / column 1),
4. their prerequisites (Appendix 2 / Column 11),
- 5 the type of module exam (Appendix 2 / Column 12)
- 6, the exam format (Appendix 2 / Column 13)
7. the exam duration or the length of the exam (Appendix 2 / Column 14)
8. the type of grading (graded or pass/fail - Appendix 2 / Column 15)
9. the weighting factor (Appendix 2 / Column 16)
10. the repeatability (Appendix 2 / Column 17).

<sup>2</sup>If in Appendix 2 / columns 13 and 14 multiple exam formats are indicated, with associated exam durations, the course instructor determines which option is chosen, and makes it known at the start of the course.

##### **§ 10 Evaluation of module exams and partial module exams**

(1) Module exams and partial module exams are either pass/fail, or graded.

(2) <sup>1</sup>The grade for a module exam or a partial module exam is set by the examiner.

<sup>2</sup>For the grading of the module exams and partial module exams the following grades are used:

Grade 1 = "very good" = excellent performance;

Grade 2 = "good" = performance that is significantly above average;

Grade 3 = "satisfactory" = performance that is average;

Grade 4 = "sufficient" = performance that is sufficient, despite its shortcomings, to meet the requirements;

Grade 5 = "fail" = performance that does not meet the requirements due to significant deficiencies.

<sup>3</sup>For a more differentiated assessment of the module exams and partial module exams, the grades may be increased or decreased by 0.3 to intermediate values; the grades 0.7; 4.3; 4.7 and 5.3 are not permitted. <sup>4</sup>If a module exam or partial module exam is graded by several examiners, or if there is a module exam or partial module exam that consists of several partial performances (§ 11 paragraph. 1 sentence 3), the overall grade of the module exam or partial module exam is calculated from the arithmetic mean of the individual scores. <sup>5</sup>Only the first two digits after the decimal point are taken into account. <sup>6</sup>The grade according to sentence 4 is then:

with an average up to and including 1.50 = "very good";  
with an average of 1.51 to 2.50 included = "good";  
with an average of 2.51 to 3.50 included = "satisfactory";  
with an average of 3.51 to 4.00 included = "sufficient".

(3) <sup>1</sup>The module grade

1. results from a module exam or from a graded partial module exam (§ 9 paragraph 2) of paragraph 2 and
2. is calculated from partial module exams (§ 9 paragraph. 2) as the arithmetic mean of the individual grades, after these grades have been assigned to each partial module exam (Appendix 2 / column 15) and have been weighted according to the factor given in Appendix 2 / column 16.

<sup>2</sup>Insofar as Appendix 2/16 column does not indicated otherwise, the partial module exams are weighted based on the ECTS points associated with them in Appendix 2/ column 18 according to sentence 1 point no. 2 to obtain an arithmetic mean.

<sup>3</sup>Paragraph 2 sentences 5 and 6 apply accordingly.

(4) <sup>1</sup>When within a module more partial module exams for different courses are passed than necessary to pass the module, only the ECTS points necessary for passing the module will be taken into account in the calculation of the grade. <sup>2</sup>Required for passing a module is the passing of

1. the module exam or partial module exams pertaining to the mandatory module courses, as listed in Appendix 2 and
2. the module exam or partial module exams pertaining to the required elective courses, as listed in Appendix 2.

<sup>3</sup>If partial module exams for more elective courses are recorded than need to be completed according to sentence 2 point no. 2, subject to § 8 paragraph 3, the first in time successfully passed will be recorded as required, pursuant to sentence 2. <sup>4</sup>Partial module exams will be associated with elective courses according to the following:

1. for those which were completed successfully in different semesters, the earlier one,

2. for those which were completed successfully in the same semester, the one with the better result.

<sup>5</sup>The required elective course, with the partial module exam of which for the first time the number of ECTS points assigned to the module is exceeded, is only included up to the assigned number of ECTS points, so that the number of ECTS points assigned to the module is not exceeded.

## **§ 11 Passing, failing and repetition of module exams and partial module exams**

(1) <sup>1</sup>A module exam or partial module exam is passed if it is evaluated with

1. "pass" or
2. at least "sufficient" (4.0)

<sup>2</sup>Module exams and partial module exams should be passed, subject to § 31, no later than the semester specified in Appendix 2 / column 1 (regular deadline); if the semester information is in brackets in Appendix 2 / column 1, this deadline is only a recommendation. <sup>3</sup>Module exams and partial module exams are passed when, subject to § 31, at the latest at the end of the regular deadline of the following semester, all the required elements are successfully completed.

(2) <sup>1</sup>For a module exam or partial module exam for which Appendix 2 / Column 1 contains a number in brackets, the end of the fourth semester is the regular deadline. <sup>2</sup>Such a module exam or partial module exam is passed if, subject to § 31, it is completed successfully no later than the end of the fifth semester.

(3) Module exams and partial module exams are passed if the requirements of paragraphs 1 and 2 are not met by the deadline prescribed therein, but are met in the context of paragraph 6 or by a retake permitted under this Examination and Study Regulations.

(4) <sup>1</sup>Module exams or partial module exams are not passed, if they were fully or partly taken, but were not passed. <sup>2</sup>Module exams or partial module exams are irrevocably failed, if they were fully or partly taken, but were not passed and there was no longer any possibility of a retake.

(5) <sup>1</sup>Module exams or partial module exams, with the exceptions as stated in § 31, will be considered

1. as taken and failed, if they are not successfully completed by the end of the semester following the regular deadline due to reasons imputable to the student, and

2. as irrevocably failed, if they are not successfully completed by the end of the third semester following the regular deadline due to reasons imputable to the student.

<sup>2</sup>For a module exam or partial module exam for which Appendix 2 / Column 1 contains a number in brackets, this module exam or partial module exam, with the exceptions as stated in § 31, will be considered

1. as taken and failed, if it is not successfully completed by the end of the fifth semester due to reasons imputable to the student, and

2. as irrevocably failed, if it is not successfully completed by the end of the seventh semester due to reasons imputable to the student.

<sup>3</sup>Justifications for missing the deadlines set by sentences 1 and 2, must be proven and immediately supplied in writing to the Examinations Office (*Prüfungsamt*). <sup>4</sup>In case of illness, a medical certificate must be presented; the presentation of a sick note is not sufficient. <sup>5</sup>The Examinations Office may, in individual cases or in general, require the submission of a certificate from a public medical officer or a medical certificate from a physician named by the Examination Board. <sup>6</sup>If the reason is accepted, a new date will be set. <sup>7</sup>For multi-part module exams and for partial module exams, the parts already successfully passed will be recorded.

(6) <sup>1</sup>A module exam or partial module exam that is failed for the first time is not recorded in the transcripts, if it is passed and recorded after an uninterrupted course of study at the latest by the end of the semester referred to as the regular deadline in paragraph 1 sentence 2 or as the regular deadline in paragraph 2 sentence 1 (free exam trial). <sup>2</sup>According to this Examination and Study Regulations, recognized periods of study at university, study programs, or changes of subject, will be credited to the course of study. <sup>3</sup>Semesters in which a student was on leave (Art. 48 paragraph 2 sentence 1 of the *BayHSchG*) are not considered, as well those periods of time that meet the requirements of § 31, or in which the student was otherwise not responsible for the reasons for not participating in a module exam or partial module exam. <sup>4</sup>Paragraph 5 sentences 3-5 shall apply accordingly. <sup>5</sup>In the context of the free exam trial, passed parts will be credited. <sup>6</sup>In the context of the free exam trial, recorded module exams, partial module exams or partial performances can be repeated again on the next available regular dates for grade improvement, with the better result counting. <sup>7</sup>Sentences 1 to 6 shall not apply to the Master's thesis (§ 14) and the thesis defense (§ 15).

(7) A failed module exam or partial module exam, except for the Master's thesis (§ 14) and the thesis defense (§ 15), may be, subject to exceptions provided in Appendix 2 / column 17 and regardless of paragraph 6, repeated as often as desired.

(8) Students who have failed a module exam or partial module exam, before their last attempt to pass, must be given the opportunity to repeat the relevant course/s.

(9) The repetition of a previously passed module exam or partial module exam for grade improvement is, regardless of paragraph 6, not possible.

(10) The grade and the ECTS points acquired with a module exam or partial module exam in this Master's program, in accordance with § 6 paragraph 1 sentence 1, may be applied only once.

## **§ 12 Account statements**

<sup>1</sup>For the students enrolled in this Master's program, a personal account is set up at the Examination Office, in which the following are recorded

1. all passed module exams and partial module exams (§ 11 paragraphs 1-3), each with the note "passed" or with the assigned grade and with the assigned ECTS points,
2. all failed module exams and partial module exams (§ 11 paragraph. 4 and 5) respectively with the note "failed" or with the assigned grade.

<sup>2</sup>At the beginning of each semester, students receive a personal statement in the sense of sentence 1 as a notification with legal remedies.

## **2. Special module exams and partial module exams**

### **§ 13 (not used)**

### **§ 14**

#### **Master's thesis**

(1) The Master's thesis is a partial module exam.

(2) The Master's thesis should demonstrate that the student is able, within a specified time limit (paragraph 7), to investigate a problem within his or her subject area independently and according to the scientific method.

(3) <sup>1</sup>The Master's thesis is supervised, according to § 24 paragraph 3 sentence 3, by the first examiner (supervisor). <sup>2</sup>If the master thesis is carried out in a facility outside of the Ludwig-Maximilians-University of Munich, this will require the approval of the Chair of the Examination Board (*Prüfungsausschuss*).

(4) <sup>1</sup>The method of distribution of topics and the review of the admission requirements is given in the first two weeks after the start of the student's penultimate semester by the Examination Office (*Prüfungsamt*) in the form customarily used; an announcement by the Examination Office exclusively on the Internet is sufficient.

<sup>2</sup>The record of topic and date of assignment of the thesis shall be kept by the Examination Office. <sup>3</sup>The student can express a preference concerning the thesis topic, the supervisor however is not bound by it. <sup>4</sup>The topic can only be rejected once, and only within two weeks of it having been assigned. <sup>5</sup>The stipulations of § 28 paragraph 2 sentence 3 are in effect; § 28 paragraph 3 shall apply accordingly.

(5) <sup>1</sup>The supervisor is required to

1. assign the topic of the thesis in a timely manner and
2. evaluate the thesis in a timely manner,

so that the evaluation reaches the Examination Office (*Prüfungsamt*) no later than two weeks before the end of the student's last semester. <sup>2</sup>For a second examiner, sentence 1 point no. 2. applies accordingly.

(6) <sup>1</sup>Students who were not assigned a thesis topic in a timely manner according to paragraph 4 sentence 1, must report immediately to the Chair of the Examination Board (*Prüfungsausschuss*). <sup>2</sup>The Chair of the Examination Board is required to ensure the assignment of a thesis topic to every student.

(7) <sup>1</sup>The time allowed to work on the Master's thesis is 24 weeks. <sup>2</sup>For the Master's thesis, 27 ECTS points are awarded.

(8) <sup>1</sup>The Master's thesis must be delivered by the deadline in three copies to the Examination Office (*Prüfungsamt*), along with any materials on which it is based, particularly rock samples, thin sections, programs and electronic data records; the time of delivery is to be recorded. <sup>2</sup>When submitting the thesis, the candidate must confirm in writing that he/she has written the thesis independently and has used no other sources and aids than those stated. <sup>3</sup>The Examination Board (*Prüfungsausschuss*) may request, either generally or in a particular case, that the thesis is submitted in electronic form, in which case the Examination Board may also define the necessary technical requirements.

(9) <sup>1</sup>The Master's thesis is assessed by the thesis supervisor (Paragraph 3 sentence 1). <sup>2</sup>Master theses to be rated as "failed" must be evaluated by one or more additional examiners (§ 24 paragraph 3 point no. 3).

(10) <sup>1</sup>A Master's thesis evaluated with a grade worse than "sufficient" (4.0) can be repeated once, at the earliest date possible. <sup>2</sup>A student is allowed to reject the thesis topic within the period mentioned in paragraph 4 sentence 4 only if the student has not already taken advantage of this possibility during the first round of the thesis work.

## § 15

### Master Thesis Defense

<sup>1</sup>The Master's thesis defense is a partial module exam, as indicated in Appendix 2/column 12. <sup>2</sup>The subject matter of the defense is the Master's thesis work. <sup>3</sup>A failed defense may be repeated once, at the next possible date. <sup>4</sup>The stipulations of § 28 paragraph 2 sentence 3 are in effect. <sup>5</sup>For the defense, 3 ECTS points are awarded.

## 3. Exam formats

### § 16

#### Oral exams

(1) <sup>1</sup>Through an oral exam, the student should demonstrate that he/she can identify the context of the subject material and analyze specific issues in this context. <sup>2</sup>The exam should also determine whether the student has an adequate knowledge base for the Master program.

(2) The duration of the oral exam for each module or module part is defined in Appendix 2/column 14.

(3) <sup>1</sup>The main topics and the results of the oral exam shall be recorded in an exam protocol. <sup>2</sup>The result will be communicated to the student as soon as the module exam or the partial module exam has been completed.

## § 17

### Written exams, and other written work subject to evaluation

(1) <sup>1</sup>In written exams and other written work, the student should demonstrate that he/she is able to solve problems and address issues by applying the required basic knowledge, in a limited time and with limited resources, using the current methods of his/her discipline. <sup>2</sup>The student may be given topics to choose from; the student however is not entitled to be offered such an option.

(2) The duration of written exams and other written work is defined in Appendix 2/column 14.

(3) <sup>1</sup>A written exam can be taken entirely or partly in a form where the examinee has to indicate which of the answers listed for each question is correct (multiple-choice exam). <sup>2</sup>The exam questions must offer reliable exam results. <sup>3</sup>All examinees shall be given the same questions. <sup>4</sup>During the preparation of the exam questions, it must be determined which answers are correct. <sup>5</sup>The exam questions must be checked by the examiner before finalizing the exam results, to verify whether they satisfy the requirement of sentence 2. <sup>6</sup>If this check shows that individual exam questions are faulty, these are not taken into account in the determination of the exam results. <sup>7</sup>The number of questions is then reduced accordingly. <sup>8</sup>The assessment of the written exam in accordance with paragraph 4 sentence 1 is to start from the reduced number of questions. <sup>9</sup>The reduction in the number of questions must not be to the detriment of an examinee.

(4) <sup>1</sup>Written exams pursuant to paragraph 3, sentence 1, which consist of single correct answers (exactly one of a total of n propositions is correct - "1 of n"), shall be deemed passed if

1. the candidate has answered correctly a total of at least 60 percent of the exam questions asked, or
2. the candidate has answered at least 50 percent of the examination questions correctly, and the number of correctly answered questions from the exam is not by more than 15 percent below the average examination performance of examinees who for the first time participated in the equivalent exam.

<sup>2</sup>If sentence 1 point no. 2 is applied, the Dean of Studies must be informed. <sup>3</sup>If the examinee has achieved the required minimum number of correct answers for passing the exam pursuant to sentence 1, the grades will be as follows

1. "very good" if he/she has answered at least 75 percent,
2. "good" if it he/she has answered at least 50 but less than 75 percent,

3. "satisfactory" if he/she has answered at least 25, but less than 50 percent,
4. "sufficient" if he/she has answered none or less than 25 percent,

of the additional applicable questions posed in the exam.

(5) <sup>1</sup>For written exams pursuant to paragraph 3 sentence 1, which consist of multiple correct answers (an unknown number  $x$  that is between zero and  $n$ , of a total of  $n$  answers is correct - " $x$  of  $n$ "), paragraph 4 applies, with the proviso that instead of the ratio of correctly answered exam questions to the total number of exam questions, the ratio of the sum of the raw points reached by the examinee to maximum performance achievable is considered. <sup>2</sup>Each multiple-choice task is assigned a number of points that corresponds to the number of possible answers ( $n$ ) and can be multiplied by a weighting factor for the individual question. <sup>3</sup>The examinee will be assigned for each multiple-choice question a base rating that fully corresponds to the answers selected by the examinee that are recognized as correct answers. <sup>4</sup>For each correct answer to a question that the examinee selects, a point is awarded for the base rating of the question. <sup>5</sup>For each correct answer not selected by the examinee in a question or for each incorrect answer selected, a minus point for the base rating of that question is awarded. <sup>6</sup>The base rating of a question cannot be lower than zero points. <sup>7</sup>The raw points calculated from the base rating are multiplied by the weighting factor of that question. <sup>8</sup>The total achievable maximum performance is calculated from the sum of the products of all evaluation numbers with the respective weighting factor of all multiple-choice questions.

(6) For written exams, which are only partly in multiple-choice format, paragraphs 3 to 5 apply only to the multiple-choice part.

(7) <sup>1</sup>A written exam can also be held in electronic form. <sup>2</sup>Nature and extent of electronic assessments will be announced at the beginning of the course by the course instructor. <sup>3</sup>Students are given sufficient opportunity before the exam, as part of the course, to familiarize themselves with the electronic evaluation system. <sup>4</sup>Privacy protection regulations apply.

## § 18

### Other exam formats

(1) <sup>1</sup>An *oral presentation* is an independently-prepared presentation, which should be supported by appropriate visual aids. <sup>2</sup>A technical discussion may follow the oral presentation.

(2) <sup>1</sup>The *implementation of case studies* based on problems pertinent to the field. <sup>2</sup>The case study must show the ability to apply theories, models and concepts in a sound manner. <sup>3</sup>The evaluation is based on the presentation of the results of the case study.

(3) <sup>1</sup>A *mapping portfolio* is a stapled collection of written systematic documentation, especially of the field data, including all resulting maps, sketches and profiles, which was prepared in the course of a field exercise and which is evaluated as a whole at the end. <sup>2</sup>Depending on the type of the field exercise, additional measurements and rock samples may accompany the report. <sup>3</sup>The text must be in continuous form.



(4) <sup>1</sup>A *written report* is the systematic study of a suitable technical problem or technical subject, including a critical discussion of the content. <sup>2</sup>The text must be in continuous form.

(5) <sup>1</sup>A *writing samples portfolio* is a stapled collection of writing samples produced in each course during one semester, which will be evaluated as a whole at the end. <sup>2</sup>The source document is part of the writing samples portfolio.

(6) The details for each format are given in Appendix 2.

#### **4. Result of the Master's Exam**

##### **§ 19**

##### **Passing and failing the Master's Exam**

(1) The master's exam should be passed by the end of the fourth semester.

(2) <sup>1</sup>The Master's exam is passed when, at the latest by the completion of the fifth semester,

1. all the exams for the mandatory and required elective modules listed in Appendix 2 have been passed and

2. the required number of 120 ECTS points has been reached.

<sup>2</sup>The Master's exam is also passed, even if the conditions of sentence 1 are not satisfied in the period specified therein, when these conditions are met in the context of § 11 paragraph 6 or by a repetition permitted under this Examination and Study Regulations (*Prüfungsordnung*).

(3) The master's exam is irrevocably failed if the exam of a mandatory module or of a required elective module in Appendix 2 was taken but not passed, and if § 11 paragraph 6 does not allow further attempts, and if no repeat option exists any longer.

(4) <sup>1</sup>The Master exam shall be declared, subject to § 11 paragraphs 6 and 8 as well as § 31,

1. as *failed for the first time* when the deadline stated in paragraph 1, for reasons attributable to the examinee, is exceeded by more than one semester, and

2. as *irrevocably failed* when the deadline stated in paragraph 1, for reasons attributable to the examinee, is exceeded by more than three semesters.

<sup>2</sup>§ 11 paragraph 5 sentences 3-7 shall apply accordingly.

##### **§ 20**

##### **Notification and Certification of Failure**

(1) When the Master exam

1. in accordance with § 19 paragraph 3 is irrevocably failed or

2. in accordance with § 19 paragraph 4 sentence 1 point no. 2 is irrevocably failed, the Chair of the Examination Board (*Prüfungsausschuss*) shall issue a written notification that also states the procedure for appeal.

(2) If the Master's exam has not been passed or is considered as failed, a certificate will be issued upon request and after presentation of the de-registration certificate (*Exmatrikulationsbescheinigung*), which includes the successfully passed module exams and partial-module exams, the assigned ECTS points and grades, as well as a declaration that the Master's exam has not been passed.

## **§ 21 Generating the Final Grade**

<sup>1</sup>If the Master's exam according to § 19 paragraph 2 is passed, the final grade is calculated from the arithmetic mean of the module grades weighted according to Appendix 2/column 16; § 10 paragraph 3 sentences 2 and 3 shall apply accordingly to the calculation of the final grade from the module grades. <sup>2</sup>If in the Master's exam more than 120 ECTS points have been acquired, only the 120 ECTS points necessary to pass the Master exam will be taken into account in the calculation of the final grade. <sup>3</sup>Required for passing the Master exam is the passing of

1. all the exams of the mandatory modules as listed in Appendix 2 and
2. all the exams of the required elective modules as listed in Appendix 2.

<sup>4</sup>If module exams are recorded for more required elective modules than must be completed according to sentence 3 point no. 2, § 7 paragraph 2 sentences 3 and 4 apply and the first module passed in temporal order is considered, pursuant to sentence 2. <sup>5</sup>In case of module exams associated with required elective modules the order in which they will be considered is the following

- 1 for exams that were performed successfully in different semesters, the earlier one,
- 2 for exams that were performed successfully in the same semester, the one with the better result.

<sup>6</sup> The one elective module, with the module exam of which the 120 ECTS-points are first exceeded, is only taken into account up to a number of ECTS points sufficient to reach 120 but not to exceed it.

## **§ 22 *Master-Urkunde, Master Diploma, Master-Zeugnis, Master Certificate, Transcript of Records and Diploma Supplement***

(1.) <sup>1</sup>After passing the Master's exam, the student receives a *Master Urkunde* in German and a Master Diploma in English, bearing the date of the day on which the last module exam or partial module exam has been completed. <sup>2</sup>The awarding of the academic degree will be certified in accordance with § 2.

(2) <sup>1</sup>Simultaneously with the *Master Urkunde* and the Master Diploma, the student obtains the *Master-Zeugnis* in German and the Master Certificate in English, with the

date of the *Master Urkunde* and of the Master Diploma. <sup>2</sup>The topic of the thesis, the thesis grade, and the final grade will be included in the *Master-Zeugnis* and in the Master Certificate.

(3) <sup>1</sup>The Examination Office provides also a transcript of records in German, which includes all completed modules and their associated module exams and partial module exams that were awarded ECTS credits and grades. <sup>2</sup>Module exams and partial module exams that are not included in the Master's exam according to §§ 19 and 21 are included for information only.

(4) The Examination Office also provides a Diploma Supplement in English with information about the type and level of the Master's degree, the status of the Ludwig-Maximilians-University of Munich, as well as detailed information about the study plan of the Master program.

(5) <sup>1</sup>The *Master Urkunde* and the Master Diploma will be signed by the Dean and by the Chair of the Examination Board, the *Master-Zeugnis* and the Masters Certificate will be signed by the Chair of the Examination Board, the Transcript of Records and Diploma Supplement will be signed by the head of the Examination Office. <sup>2</sup> *Master Urkunde*, Master Diploma, *Master-Zeugnis*, Master Certificate, Transcript of Records and Diploma Supplement will be stamped with the seal of the Ludwig-Maximilians-University Munich.

(6) <sup>1</sup>If, after the issuance and delivery of a *Master Urkunde*, a Master Diploma, a *Master-Zeugnis*, a Master Certificate, a Transcript of Records, a Diploma Supplement, or any other certificate or account statement, it becomes clear that unauthorized aids were used or deception was committed, the Examination Board may subsequently correct the grades in question and declare the examination wholly or partly failed. <sup>2</sup>The incorrect *Master Urkunde*, the incorrect Master Diploma, the incorrect *Master-Zeugnis*, the incorrect Master Certificate, the incorrect Transcript of Records, the incorrect Diploma Supplement, or any other incorrect certificate or incorrect account statement is withdrawn.

<sup>3</sup>If the conditions are met, a correct *Master Urkunde*, a correct Master Diploma, a correct *Master-Zeugnis*, a correct Master Certificate, a correct Transcript of Records, a correct Diploma Supplement, or correct other document or final account statement are to be issued. <sup>4</sup>Such a decision is not possible after a period of five years from the date of the *Master-Zeugnis* and the Master Certificate. <sup>5</sup>Before making a decision according to sentence 1 and/or sentence 2 an opportunity to be heard shall be given. <sup>6</sup>Negative decisions are to be communicated to the student in writing without delay, with justification, and with information about appeal procedures.

## IV. Examination Bodies and Examination Administration

### § 23

#### Examination Board (Prüfungsausschuss) and Examination Office (Prüfungsamt)

(1) <sup>1</sup>The Examination Board consists of three members, which must be given examination authority pursuant to Art. 62 paragraph 1 sentence 2 of the *BayHSchG* together with the university examiner regulation in its current version (*HSchPrüferV*).

<sup>2</sup>Two members are appointed by the Faculty Council of the *Fakultät für Geowissenschaften* of the Ludwig-Maximilians-University Munich, the third will be a member appointed through the Faculty Council of the *Ingenieur fakultät Bau Geo Umwelt* of the Technical University Munich. <sup>3</sup> The tenure of the members of the Examination Board shall be three years. <sup>4</sup>Reappointment is allowed.

(2) <sup>1</sup>The members elect among themselves a Chair and a vice-Chair. <sup>2</sup>The tenure of the Chair and of the vice-Chair is three years. <sup>3</sup>Reappointment is allowed.

(3) <sup>1</sup>The Examination Board shall have a quorum, when all members at least one week prior to the meeting, in writing or electronically, were informed of the details of the agenda, and the majority of members are present and entitled to vote. <sup>2</sup>It shall decide by a majority of votes cast at meetings; abstention, vote by secret ballot and transfer of voting rights are not allowed. <sup>3</sup>In a tie, the vote of the Chair shall be decisive. <sup>4</sup>The exclusion of a member of the Examination Board from deliberations and voting on the Examination Board and from some examination activities is determined by Art. 41 paragraph 2 of the *BayHSchG*.

(4) <sup>1</sup>The Examination Board is responsible for the organization of exams, the appointment of examiners and assistant examiners (§ 24 paragraph 3), as well as the decisions in examination matters. <sup>2</sup>The Examination Board will be assisted in the performance of its duties by the Examination Office. <sup>3</sup>The Examination Board shall ensure that the provisions of this Examination and Study Regulations (*Prüfungs- und Studienordnung*) are adhered to. <sup>4</sup>It reports regularly to the Dean of Studies about the development of examinations and study periods and makes suggestions for changes and useful improvements of this Examination and Study Regulations.

(5) <sup>1</sup>The Examination Board may, in revocable fashion, assign the execution of specific tasks to the Chair of the Examination Board, to the vice-Chair, as well as to the Examination Office. <sup>2</sup>In addition, the Chair of the Examination Board is authorized to make urgent decisions in place of the Examination Board; in such cases he/she must promptly inform the Examination Board.

(6) The Examination Board shall define its own rules of procedure.

(7) The members of the Examination Board have the right to attend exams.

## § 24

### Examiners and assistant examiners

(1) <sup>1</sup>In a module exam involving only one course, with the exception of the Master thesis, subject to paragraph 4 sentence 1, the person responsible for the exam is the course instructor. <sup>2</sup>In module exams that involve multiple courses with different instructors, the Examination Board (*Prüfungsausschuss*) appoints in general or in a particular case one or more instructor/s as examiner/s. <sup>3</sup>Sentence 2 applies when the instructor is not an authorized examiner (paragraph 4 sentence 1).

(2) Written module exams to be rated as "failed" are to be assessed by two examiners, oral module exams are to be conducted by at least one examiner and one assistant examiner (paragraph 3 sentence 1).

(3) The Examination Board (*Prüfungsausschuss*) shall appoint either in general or in individual cases

1. in oral module exams, the assistant examiners,
2. in written module exams that are to be rated as "failed", a second examiner,
3. for a Master's thesis, one examiner or some examiners (§ 14 paragraph 3) or several examiners (§ 14 paragraph 9) and
4. for the thesis defense (§ 15), an examiner or some examiners or several examiners.

(4) <sup>1</sup>Examiners can only be those individuals who are authorized pursuant to Art. 62 paragraph 1 sentence 2 BayHSchG together with the HSchPrüferV. <sup>2</sup>Assistant examiners must be qualified persons who have successfully completed at least a Master's degree or who possess an equivalent qualification.

(5) The implementation of the examination method is the responsibility of the individual examiners and supervisors.

## § 25

### Program Coordinator, Duties of Examiners

(1) <sup>1</sup>The program coordinator for this Master program will be appointed by the Faculty. <sup>2</sup>Until a selection is made, the dean shall perform the task of coordinator.

<sup>3</sup>The program coordinator carries out in cooperation with the Examination Committee, the Examination Office, and the Central University Administration, the following tasks:

1. for the establishment and for any amendments to this Master's program:
  - a) the revision of these examination regulations from a technical point of view,
  - b) the preparation of the necessary information about this master's degree program for students and examiners,
2. afterwards: the coordination and organization of the courses and examinations, especially
  - a) the convening of an annual meeting about the curriculum,
  - b) the assignment of actual courses to the abstract ones defined in this "examination and study regulations",

- c) the announcement of the courses in the course catalog,
- d) the listing of actual courses in the online course catalog,
- e) the scheduling and room allocation of classes, and exams
- f) entering the exam results in an electronic database.

(2) <sup>1</sup>The examiners (§ 24) are bound to inform the Examination Office immediately in the predetermined standardized form, of which students have participated in their course and with what result. <sup>2</sup>The information must be in the correct form in the Examination Office in due time; the Examination Office will announce at the latest at the beginning of each semester the deadline by which the communication shall be received by the Examination Office. <sup>3</sup>If the requirements of sentence 2 are not satisfied, the relevant course will not be considered in the current account statements (§ 12). <sup>4</sup>The examiner must, as soon as possible, submit to the Examination Office such notifications and send by post to all affected students individual certificates with their results including the right to appeal.

## **§ 26**

### **Students' Duty of Cooperation, Acknowledgment of Communications**

<sup>1</sup>The student is required to confirm receipt of information, communications and administrative acts of the Examination Board or Examination Office sent to him/her, or electronically retrieved by him/her, at his/her own cost (acknowledgment of receipt). <sup>2</sup>Within the grounds of the Ludwig-Maximilians-University Munich, the acknowledgment may be free of charge. <sup>3</sup>The Examination Office, according to local custom, in the first two weeks of the semester will state when information, communications and administrative acts will be posted or sent electronically and can be accessed or retrieved. <sup>4</sup>For the delivery of such information, communications and administrative acts, the general statutory provisions apply. <sup>5</sup>As for students who take no notice of the posted information, communications and administrative acts, who do not retrieve electronically those provided, and who do not collect those mailed to them, this information, communications and administrative acts will be considered delivered and known one month after posting, after request for electronic retrieval, or after request for pickup. <sup>6</sup>If the Examination Office has to send information, communications and administrative acts again, due to the failure of the student to confirm receipt as stated in sentence 1, or because the student claims to have no knowledge of posted information, communications and administrative acts, or has not provided to retrieve them electronically, or has not picked up mailings, the student bears the additional transmission costs. <sup>7</sup>The Examinations Office is not required to make a re-delivery attempt.

## **§ 27 Recognition of competences**

(1) <sup>1</sup>Studies, coursework and examinations, which were taken in another program at the Ludwig-Maximilians-University of Munich or in courses at other state or state-recognized higher education institutions in the Federal Republic of Germany, or through the successful participation in a distance education unit in a course of study at a state or state-recognized university in the Federal Republic of Germany or in courses of study at foreign universities, should be counted, unless there are significant

differences in terms of acquired skills (learning outcomes). <sup>2</sup>The same is true for studies, coursework and examinations taken at a state or state-recognized university in Bavaria in the context of other studies according to Art. 56 paragraph 6 no. 1 and 2 of the *BayHSchG*, in special courses offered according to Art. 47 paragraph 3 sentence 1 of the *BayHSchG*, or that have been provided by the Virtual University of Bavaria.

(2) <sup>1</sup>Competencies acquired in any other continuing education studies according to Art. 56 paragraph 6 no. 3 of the *BayHSchG*, or outside the higher education sector, can be counted if they are deemed equivalent. <sup>2</sup>Competencies acquired outside higher education may replace no more than half of the total credits required

(3) <sup>1</sup>If any academic results are transferred, the grades - if the grading systems match – will also be transferred and included, in accordance with this Examination and Study Regulations, in the calculation of module and of the final grade. <sup>2</sup>The transferred grades are to be identified and the transfer noted in the certificate. If the grading systems do not match, the grade for the credited performance shall be determined by the Chair of the Examination Board (*Prüfungsausschuss*), based on the assessment levels according to § 10 paragraph 2 and proceed pursuant to sentences 1 and 2. <sup>4</sup>Sentences 1 to 3 shall apply accordingly to the allocation of ECTS points.

(4) <sup>1</sup>The documents required for recognition must be submitted by the student to the Examination Board no later than the end of the first semester after enrollment in this Master's degree at of the Ludwig-Maximilians-University Munich, provided that the competencies to be credited were acquired before enrolling in this Master's program at the Ludwig-Maximilians-University Munich. <sup>2</sup>For the recognition of externally-acquired competencies that were acquired after enrollment in this Master's program at the Ludwig-Maximilians-University of Munich, the documents must be submitted in each case following the semester of acquisition. <sup>3</sup>As a rule, evidence of the periods of study to be credited must be supplied in the form of the study guide of the university where the study period was completed. <sup>4</sup>For the recognition of studies and examinations, a certificate from the university where the study and examination services were provided must be presented, which includes

1. which individual exams were taken (oral and / or written) and in which subject was each test that was part of the overall exam,
2. which exams were actually filed,
3. the grades for coursework and exams, and possibly the subject grade,
4. the grading system used,
5. for programs with credit systems, the credit points awarded for the individual courses as well as the number of credit points that is necessary for successful completion of the degree program,
6. the worth of the individual courses to be recognized, in terms of contact hours per week (SWS) and
7. if an overall exam on the basis of the present results is not passed, or failed due to other circumstances as applicable.

<sup>5</sup>For applying a credit transfer from outside of the higher education sector, appropriate evidence of the acquired competencies (transcripts, certificates, documentation, etc.) must be submitted.

(5) For certificates and documents that are not issued in German language, the production of a certified German translation may be required.

(6) Concerning the recognition of study periods and exams, the Examination Board decides, in case of doubt after consulting the person representing the technical subject in question in the Department.

## **§ 28**

### **Registration for Courses and Registration for Module Exams and Partial Module Exams; Measures for Organization of Studies**

(1) <sup>1</sup>The Examination Board may prescribe for any or all courses that a registration is required for participation in the course and regulates its form and timing. <sup>2</sup>Students who have a course for which, according to sentence 1, registration is required, and who fail to register in the form and/or by the deadline prescribed, will not be eligible to participate in this course. <sup>3</sup>The courses for which registration is required, and the form and deadline for registration, will be announced according to local custom in the first two weeks after the beginning of the semester by the Examination Office; an announcement by the Examination Office exclusively on the Internet is sufficient.

(2) <sup>1</sup>For all module exams and partial module exams registration is required, the form and deadline of which is prescribed by the Examination Board. <sup>2</sup>Students who have not or not or not or positive and timely registered for a module examination or partial module examination, are not entitled to participate in this examination module or module component testing. <sup>3</sup>The Examination Board may also generally decide that a module exam or partial module exam for which the student has registered is deemed failed if the student due to reasons attributable to himself/herself does not participate or withdraws from his/her module exam or partial module exam. <sup>4</sup>Paragraph 1 sentence 3 shall apply accordingly to the form and deadlines of the registrations.

(3) <sup>1</sup>The announcements under paragraph 1 sentence 3 and paragraph 2 sentence 4 will be recorded in a written protocol that includes detailed information about the content of the determinations as well as time, type and location of the disclosure. <sup>2</sup>The protocol will be signed by the Chair of the Examination Board and retained by the Examination Office for at least five years.

(4) For measures of organization of studies applies the Statute for the establishment of the criteria for the inclusion of students in courses of Bachelor and Master degree programs with limited capacity at the Ludwig-Maximilians University of Munich on 24 July 2009, as amended.

## **§ 29**

### **Absence, Withdrawal**

(1) A module examination or module part test is considered "failed" or "insufficient" (5.0), if the student



1. in an exam for which he/she has registered and the Examination Board an order pursuant to § 28 para. 2 sentence 3 has issued, misses the exam due to reasons attributable to himself/herself or
2. withdraws from an exam that he or she has competed due to reasons attributable to himself/herself or
3. a written exam has not been handed in within the allotted time due to reasons attributable to himself/herself.

(2) <sup>1</sup>The reason for the withdrawal or the absence must be plausible and delivered in writing without delay to the Examinations Office. 2§ 11 paragraph 5 sentences 4-7 shall apply accordingly.

### **§ 30**

#### **Cheating, Disorderly Conduct, Prerequisites for Participation**

- (1) If a student attempts to influence the result of an exam by cheating or using unauthorized aids for his/her own benefit or the benefit of others, the exam in question will be evaluated as "not passed" or "failed" (5,0); for a written exam a cheating attempt includes the possession of unauthorized aids during and after the distribution of the exam papers. <sup>2</sup>The Examination Board shall be informed by the examiners about the incident.
- (2) A student who disrupts the orderly conduct of the exam may be excluded from the continuation of the exam by the examiner or by the exam proctor; in this case, the exam will be evaluated as "failed" or "insufficient" (5.0).
- (3) In severe or repeated cases of paragraph 1 and paragraph 2 the Examination Board may exclude the student from some or from or all other module exams and partial module exams; in the latter case the student will be expelled in accordance with Article 49 paragraph 2 no. 3 of the *BayHSchG*.
- (4) If the prerequisites for participation in an exam had not been met, the exam is deemed not taken.
- (5) § 22 Abs. 6 sets 5 and 6 shall apply accordingly.

### **§ 31**

#### **Protection provisions of the Maternity Protection Act and under the Federal Parental Allowance and Parental Leave Act as well as under the Home Care Leave Act**

- (1) The use of protection provisions is possible, in accordance with the §§ 3, 4, 6 and 8 of the Law on protection of the working mother (maternity protection law - the Maternity Protection Act) in the version published on 20 June 2002 (Federal Law Gazette I p 2318) and as amended, and in accordance with the terms of the Law on Parental Allowance and Parental Leave (Bundeselterngeld- Parental Leave Act -

BEEG) of 5 December 2006 (Federal Law Gazette I p 2748) in the current version as well as for the care of a close relative in the sense of § 7 paragraph 3 of the Law on nursing time (Pflegezeitgesetz - PflegeZG) from May 28, 2008 (Federal Law Gazette I, p 874, 896) in the current version, the long-term care in the sense of §§ 14, 15 of the Eleventh book of the social Code (SGB XI) of 26 May 1994 (Federal Law Gazette I p 1014 1015).

(2) <sup>1</sup>The Examination Board determines which courses for pregnant or nursing students are associated with above-average risks and labels them with an appropriate warning. <sup>2</sup>The Examination Board prohibits the participation of pregnant or nursing students in courses that are associated with underlying risks that are considerably above average for mother and/or child. <sup>3</sup> The Examination Board determines whether and how pregnant or nursing students can acquire otherwise the knowledge and skills that are taught in courses in which they not allowed to participate. <sup>4</sup>A legal entitlement to having special course offers made available to pregnant or nursing students does not exist. <sup>5</sup>The courses, warnings and prohibitions pursuant to sentences 1 and 2 as well as the opportunity to otherwise acquire the knowledge and skills according to sentence 3 will be announced in the customary manner by the Examination Office; an announcement by the Examination Office exclusively on the Internet is sufficient.

### **§ 32 Accommodations for disabilities**

(1) <sup>1</sup>Severely disabled people and assimilated (§ 2 paragraphs 2 and 3 of the Social Code - Ninth Book - SGB IX in the current version) shall be granted, upon request to the Examination Board, and according to the severity of the proven disability, an extension of the test duration up to a quarter of the normal exam duration. <sup>2</sup>In cases of particularly extensive disability, upon request, the time may be extended up to half the normal exam duration. <sup>3</sup>In addition to or instead of an extension of the exam duration, another reasonable compensation may be granted.

(2) <sup>1</sup>Other examinees whose exam performance may be significantly affected due to a proven and not merely temporary physical disability or chronic illness may, in accordance with paragraph 1, be granted a compensation for the disadvantage. <sup>2</sup>For temporary disability other reasonable measures may be taken.

(3) <sup>1</sup>Requests for compensation for disabilities shall be submitted not later than the registration for a module exam or partial module exam or no later than one month before the relevant exam. <sup>2</sup>The disability must be proven. <sup>3</sup>The Examination Board may request that proof be supplied by means of a medical certification. <sup>4</sup>§ 11 paragraph 5 sentences 4 and 5 shall apply accordingly.

### **§ 33 Deficiencies in the examination procedure**

(1.) If it emerges that an examination procedure was affected by material defects that may have influenced the test result, it is to be arranged, upon request of a participant or ex officio, that some or all participants repeat the entire module exam or a partial module exam or a single part of the exam.

(2) <sup>1</sup> Any alleged deficiencies in the examination procedure or the inability to take part in the examination before or while the examination itself is taking place, must be asserted and substantiated immediately and in any case no later than just before the announcement of the examination results with the exam proctor or the examiner, the Examination Office, or the chairperson of the Examination Board. <sup>2</sup> Verbal claims made and substantiated reasons in the sense of sentence 1 are also to be made promptly and to be substantiated in writing to the Examinations Office or to the chairperson of the Examination Board. <sup>3</sup> Any claims shall not be valid, if one month has elapsed between the date on which the module exam or partial module exam has been performed and the claim itself. <sup>4</sup> § 11 paragraph 5 sentences 3-7 shall apply accordingly.

### **§ 34 Inspection of examination records, retention periods**

<sup>1</sup> Within three months of the completion of a module exam or partial module exam, it is possible for the student to request the Examinations Office access to the related reports and protocols within a reasonable time. <sup>2</sup> The Examination Office may announce that the inspection according to sentence 1, sentence 1 notwithstanding, take place in the Ludwig-Maximilians-University of Munich; a notification of this other place by the Examination Office exclusively on the Internet is sufficient. <sup>3</sup> The complete examination records are retained for at least five years. <sup>4</sup> The Founding Act, consisting of copies of the *Master-Urkunde*, the Master Diploma, *Master-Zeugnis*, the Master Certificate and Transcript of Records, will be kept indefinitely. <sup>5</sup> The storage can be done in electronic form.

## **VI. final Provisions**

### **§ 35 Entry into effect**

This Statute shall enter into effect on 1 October 2013.

1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen							18	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
<b>4 Masterstudiengang: Geology (Master of Science, M.Sc.)</b>																Stand: 30.07.2013	<b>120</b>	
<b>1. Fachsemester</b>																		
	keine	P	P 1 / I		Geological Field Mapping and Exploration	WS												
		P	P 1.1			WS	keine	Field Seminar	Seminar	2								(3)
(1.)	keine	P	P 2		Deformation and Transformation	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen P 2.0.1 und P 2.0.2 ist eine Wahlpflichtlehrveranstaltung zu wählen. Wer die Wahlpflichtlehrveranstaltung P 2.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 7.0.1 wählen. Wer die Wahlpflichtlehrveranstaltung P 2.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 4.0.2 wählen.																		
		WP	P 2.0.1			WS	keine	Rheology	Integrierte Lernaktivität	4								(6)
		WP	P 2.0.2			WS	keine	Geochronology	Integrierte Lernaktivität	4								(6)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Moduleilprüfungen							18	
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(1.)	keine	P	P 3		Surface Processes	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen P 3.0.1 und P 3.0.2 ist eine Wahlpflichtlehrveranstaltung zu wählen. Wer die Wahlpflichtlehrveranstaltung P 3.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 7.0.2 wählen. Wer die Wahlpflichtlehrveranstaltung P 3.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltungen P 5.0.2 und WP 7.0.7 wählen.																		
		WP	P 3.0.1			WS	keine	Earth Surface Processes	Integrierte Lernaktivität	4								(6)
		WP	P 3.0.2			WS	keine	Sedimentary Basin Dynamics	Integrierte Lernaktivität	4								(6)
(1.)	keine	P	P 4		Active Tectonics	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen P 4.0.1 und P 4.0.2 ist eine Wahlpflichtlehrveranstaltung zu wählen. Wer die Wahlpflichtlehrveranstaltung P 4.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 7.0.3 wählen. Wer die Wahlpflichtlehrveranstaltung P 4.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 2.0.2 wählen.																		
		WP	P 4.0.1			WS	keine	Modern Active Tectonics	Integrierte Lernaktivität	4								(6)
		WP	P 4.0.2			WS	keine	Geochronology	Integrierte Lernaktivität	4								(6)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen					Modulprüfungen / Modulteilprüfungen							
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(1.)	keine	P	P 5		Geological Resources	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen P 5.0.1 und P 5.0.2 ist eine Wahlpflichtlehrveranstaltung zu wählen. Wer die Wahlpflichtlehrveranstaltung P 5.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 7.0.4 wählen. Wer die Wahlpflichtlehrveranstaltung P 5.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltungen P 3.0.2 und WP 7.0.7 wählen.																		
		WP	P 5.0.1			WS	keine	Geology of Mineral Deposits	Integrierte Lernaktivität	4								(6)
		WP	P 5.0.2			WS	keine	Sedimentary Basin Dynamics	Integrierte Lernaktivität	4								(6)
(1.)	keine	P	P 6		Modern Geology I	WS und SS					keine	MP	Referat	60 Minuten	bestanden/ nicht bestanden		beliebig	3
Aus den Wahlpflichtlehrveranstaltungen P 6.0.1 bis P 6.0.5 ist eine Wahlpflichtlehrveranstaltung zu wählen.																		
		WP	P 6.0.1			WS und SS	keine	Advanced Deformation and Transformation 1	Seminar	2								(3)
		WP	P 6.0.2			WS und SS	keine	Advanced Surface Processes 1	Seminar	2								(3)
		WP	P 6.0.3			WS und SS	keine	Advanced Active Tectonics 1	Seminar	2								(3)
		WP	P 6.0.4			WS und SS	keine	Advanced Earth Magnetism 1	Seminar	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Moduleilprüfungen							18	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
		WP	P 6.0.5			WS und SS	keine	Advanced Isotope Geochemistry and Geochronology 1	Seminar	2								(3)
<b>2. Fachsemester</b>																		
2.	keine	P	P 1 / II		Geological Field Mapping and Exploration	SS					keine	MP	Kartierberichtsmappe	15 - max. 30 Seiten	Benotung		beliebig	6
		P	P 1.2			SS	keine	Field Mapping and Exploration	Geländeübung									(3)
(2.)	keine	P	P 7		Modern Geology II	WS und SS					keine	MP	Referat	60 Minuten	bestanden/ nicht bestanden		beliebig	3
Aus den Wahlpflichtlehrveranstaltungen P 7.0.1 bis P 7.0.5 ist eine Wahlpflichtlehrveranstaltung zu wählen.																		
		WP	P 7.0.1			WS und SS	keine	Advanced Deformation and Transformation 2	Seminar	2								(3)
		WP	P 7.0.2			WS und SS	keine	Advanced Surface Processes 2	Seminar	2								(3)
		WP	P 7.0.3			WS und SS	keine	Advanced Active Tectonics 2	Seminar	2								(3)
		WP	P 7.0.4			WS und SS	keine	Advanced Earth Magnetism 2	Seminar	2								(3)
		WP	P 7.0.5			WS und SS	keine	Advanced Isotope Geochemistry and Geochronology 2	Seminar	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

Module																		
1	Module					Lehrveranstaltungen					Modulprüfungen / Modulteilprüfungen							
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(2.)	keine	P	P 8		Guided Scientific Research	SS					keine	MP	schriftlicher Bericht und Referat	max. 5.000 Wörter und 30 Minuten	Benotung		beliebig	6
		P	P 8.1			SS	keine	Project Supervision	persönliche Beratung	0,5								(0,5)
		P	P 8.2			SS	keine	Research laboratory	Projekt	0,5								(5,5)
(2.)	keine	P	P 9		Geological Methods I	SS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat oder Kartierberichtsmappe oder Fallstudie	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten. oder 15 - max. 30 Seiten oder (max. 5 GB digitale Datei oder Probenanalyse)	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen P 9.0.1 bis P 9.0.14 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen.																		
Wer die Wahlpflichtlehrveranstaltung P 9.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.13 wählen. Wer die Wahlpflichtlehrveranstaltung P 9.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.14 wählen. Wer die Wahlpflichtlehrveranstaltung P 9.0.5 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.4 wählen. Wer die Wahlpflichtlehrveranstaltung P 9.0.8 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 5.0.4 wählen. Wer die Wahlpflichtlehrveranstaltung P 9.0.9 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.9 wählen. Wer die Wahlpflichtlehrveranstaltung P 9.0.14 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 5.0.3 wählen.																		
		WP	P 9.0.1			SS	keine	Quantitative Geological Mapping 1	Integrierte Lernaktivität	2								(3)
		WP	P 9.0.2			SS	keine	Quaternary Dating Methods	Integrierte Lernaktivität	2								(3)
		WP	P 9.0.3			SS	keine	Quantitative Geological Mapping 2	Geländeübung									(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle



1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen							18	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
		WP	P 9.0.4			SS	keine	Methods of Mineral Resources	Integrierte Lernaktivität	2								(3)
		WP	P 9.0.5			SS	keine	Geological Computer Modeling	Workshop	2								(3)
		WP	P 9.0.6			SS	keine	Scientific Programming	Integrierte Lernaktivität	4								(6)
		WP	P 9.0.7			SS	keine	Analytical Methods in Geochemistry	Vorlesung	2								(3)
		WP	P 9.0.8			SS	keine	High-resolution Microscopic Methods	Integrierte Lernaktivität	3								(6)
		WP	P 9.0.9			SS	keine	Neotectonics	Workshop	4								(6)
		WP	P 9.0.10			SS	keine	Mathematical Geology 1	Vorlesung	2								(3)
		WP	P 9.0.11			SS	keine	Quantitative Microfabric Analysis	Integrierte Lernaktivität	2								(3)
		WP	P 9.0.12			SS	keine	Geological Sample Preparation 1	Integrierte Lernaktivität	2								(3)
		WP	P 9.0.13			SS	keine	Lidar and GPS mapping	Geländeübung									(3)
		WP	P 9.0.14			SS	keine	Geothermobarometry	Integrierte Lernaktivität	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

Anlage 2 - Module, Lehrveranstaltungen, Modulprüfungen / Moduleilprüfungen																		
1	Module					Lehrveranstaltungen					Modulprüfungen / Moduleilprüfungen							
Semester*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
Aus den Wahlpflichtmodulen WP 1 bis WP 5 sind zwei Wahlpflichtmodule zu wählen.																		
(2.)	keine	WP	WP 1		Geophysics	SS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat oder Fallstudie	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten oder (max. 5 GB digitale Datei oder Probenanalyse)	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen WP 1.0.1 bis WP 1.0.4 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen. Wer die Wahlpflichtlehrveranstaltung WP 1.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 2.0.3 wählen. Wer die Wahlpflichtlehrveranstaltung WP 1.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.6 wählen. Wer die Wahlpflichtlehrveranstaltung WP 1.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung 4.0.11 wählen. Wer die Wahlpflichtlehrveranstaltung WP 1.0.4 wählt, darf nicht die Wahlpflichtlehrveranstaltungen WP 4.0.7 und WP 5.0.1 wählen.																		
		WP	WP 1.0.1			SS	keine	Geodynamics	Vorlesung	2								(3)
		WP	WP 1.0.2			SS	keine	Paleomagnetism	Integrierte Lernaktivität	2								(3)
		WP	WP 1.0.3			SS	keine	Crystal Physics	Integrierte Lernaktivität	3								(6)
		WP	WP 1.0.4			SS	keine	Petrophysics	Integrierte Lernaktivität	3								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

Anlage 2 - Module, Lehrveranstaltungen, Modulprüfungen / Modulteilprüfungen																		
Module						Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(2.)	keine	WP	WP 2		Global Aspects	SS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat oder Fallstudie	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten oder (max. 5 GB digitale Datei oder Probenanalyse)	Benotung		beliebig	6
<p>Aus den Wahlpflichtlehrveranstaltungen WP 2.0.1 bis WP 2.0.5 sind zwei Wahlpflichtlehrveranstaltungen zu wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 2.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.1 wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 2.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.2 wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 2.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 1.0.1 wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 2.0.5 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.10 wählen.</p>																		
		WP	WP 2.0.1			SS	keine	Global Tectonics	Integrierte Lernaktivität	2								(3)
		WP	WP 2.0.2			SS	keine	Global Geochemical Cycles	Vorlesung	2								(3)
		WP	WP 2.0.3			SS	keine	Geodynamics	Vorlesung	2								(3)
		WP	WP 2.0.4			SS	keine	Global Soils	Vorlesung	2								(3)
		WP	WP 2.0.5			SS	keine	Soil Science	Integrierte Lernaktivität	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen							18	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(2.)	keine	WP	WP 3		Geoindustry	SS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat oder Fallstudie	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten oder (max. 5 GB digitale Datei oder Probenanalyse)	Benotung		beliebig	6
<p>Aus den Wahlpflichtlehrveranstaltungen WP 3.0.1 bis WP 3.0.5 sind zwei Wahlpflichtlehrveranstaltungen zu wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 3.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.3 wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 3.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 4.0.5 wählen.</p>																		
		WP	WP 3.0.1			SS	keine	Industrial Minerals	Integrierte Lernaktivität	2								(3)
		WP	WP 3.0.2			SS	keine	Environmental Geology	Integrierte Lernaktivität	2								(3)
		WP	WP 3.0.3			SS	keine	Mineral Economics	Integrierte Lernaktivität	2								(3)
		WP	WP 3.0.4			SS	keine	Risk Analysis	Integrierte Lernaktivität	2								(3)
		WP	WP 3.0.5			SS	keine	Exploration	Integrierte Lernaktivität	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

Module																		
1	Module					Lehrveranstaltungen					Modulprüfungen / Modulteilprüfungen							
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(2.)	keine	WP	WP 4		Complementary Fields I	SS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat oder Kartierberichtsmappe oder Fallstudie	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten oder 15 - max. 30 Seiten oder (max. 5 GB digitale Datei oder Probenanalyse)	Benotung		beliebig	6
<p>Aus den Wahlpflichtlehrveranstaltungen WP 4.0.1 bis WP 4.0.14 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 4.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 2.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 2.0.2 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 3.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.4 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 9.0.5 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.5 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 3.0.3 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.6 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 1.0.2 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.7 wählt, darf nicht die Wahlpflichtlehrveranstaltungen WP 1.0.4 und WP 5.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.9 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 9.0.9 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.10 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 2.0.5 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.11 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 1.0.3 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.13 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 9.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 4.0.14 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 9.0.3 wählen.</p>																		
		WP	WP 4.0.1			SS	keine	Global Tectonics	Integrierte Lernaktivität	2								(3)
		WP	WP 4.0.2			SS	keine	Global Geochemical Cycles	Vorlesung	2								(3)
		WP	WP 4.0.3			SS	keine	Industrial Minerals	Integrierte Lernaktivität	2								(3)
		WP	WP 4.0.4			SS	keine	Geological Computer Modeling	Workshop	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Moduleilprüfungen							18	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
		WP	WP 4.0.5			SS	keine	Mineral Economics	Integrierte Lernaktivität	2								(3)
		WP	WP 4.0.6			SS	keine	Paleomagnetism	Integrierte Lernaktivität	2								(3)
		WP	WP 4.0.7			SS	keine	Petrophysics	Integrierte Lernaktivität	3								(3)
		WP	WP 4.0.8			SS	keine	Landslides	Vorlesung	4								(6)
		WP	WP 4.0.9			SS	keine	Neotectonics	Workshop	4								(6)
		WP	WP 4.0.10			SS	keine	Soil Science	Integrierte Lernaktivität	2								(3)
		WP	WP 4.0.11			SS	keine	Crystal Physics	Integrierte Lernaktivität	3								(6)
		WP	WP 4.0.12			SS	keine	Geomicrobiology	Übung	2								(3)
		WP	WP 4.0.13			SS	keine	Quantitative Geological Mapping 1	Integrierte Lernaktivität	2								(3)
		WP	WP 4.0.14			SS	keine	Quantitative Geological Mapping 2	Geländeübung									(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen							18	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(2.)	keine	WP	WP 5		Petrology I	SS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen WP 5.0.1 bis WP 5.0.4 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen. Wer die Wahlpflichtlehrveranstaltung WP 5.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltungen WP 1.0.4 und WP 4.0.7 wählen. Wer die Wahlpflichtlehrveranstaltung WP 5.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 9.0.14 wählen. Wer die Wahlpflichtlehrveranstaltung WP 5.0.4 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 9.0.8 wählen.																		
		WP	WP 5.0.1			SS	keine	Petrophysics	Integrierte Lernaktivität	3								(3)
		WP	WP 5.0.2			SS	keine	Polarization Microscopy	Integrierte Lernaktivität	2								(3)
		WP	WP 5.0.3			SS	keine	Geothermobarometry	Integrierte Lernaktivität	2								(3)
		WP	WP 5.0.4			SS	keine	High-resolution Microscopic Methods	Integrierte Lernaktivität	3								(6)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

3. Fachsemester																		
1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen								
Semester*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
	erfolgreiche Teilnahme an P 1 bis P 9 und einem Modul aus WP 1 bis WP 5	P	P 10 / I		Independent Scientific Research	WS												
		P	P 10.1 / I			WS	keine	Master thesis	Masterarbeit									(9)
(3.)	keine	P	P 11		Geological Methods II	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat oder schriftlicher Bericht oder Fallstudie	90-120 min oder 30-60 min oder max. 10.000 Wörter oder 60 min. oder max. 10.000 Wörter oder (max. 5 GB digitale Datei oder Probenanalyse)	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen P 11.0.1 bis P 11.0.9 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen. Wer die Wahlpflichtlehrveranstaltung P 11.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 6.0.3 wählen. Wer die Wahlpflichtlehrveranstaltung P 11.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 8.0.2 wählen. Wer die Wahlpflichtlehrveranstaltung P 11.0.9 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 9.0.5 wählen.																		
		WP	P 11.0.1			WS	keine	Photogrammetry and Remote Sensing	Vorlesung	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle



Anlage 2 - Module, Lehrveranstaltungen, Modulprüfungen / Modulteilprüfungen																		
1	Module					Lehrveranstaltungen					Modulprüfungen / Modulteilprüfungen							
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
		WP	P 11.0.2			WS	keine	Experimental Geochemistry	Vorlesung	2								(3)
		WP	P 11.0.3			WS	keine	Precise GNSS	Integrierte Lernaktivität	4								(6)
		WP	P 11.0.4			WS	keine	Microthermometry	Integrierte Lernaktivität	2								(3)
		WP	P 11.0.5			WS	keine	Electron Microprobe	Übung	2								(3)
		WP	P 11.0.6			WS	keine	Mathematical Geology 2	Übung	3								(3)
		WP	P 11.0.7			WS	keine	Mathematical Geology 3	Übung	3								(3)
		WP	P 11.0.8			WS	keine	Geological Sample Preparation 2	Integrierte Lernaktivität	2								(3)
		WP	P 11.0.9			WS	keine	Soil Science Methods	Übung	4								(6)
(3.)	keine	P	P 12		Modern Geology III	WS und SS					keine	MP	Referat	60 Minuten	bestanden/ nicht bestanden		beliebig	3
Aus den Wahlpflichtlehrveranstaltungen P 12.0.1 bis P 12.0.5 ist eine Wahlpflichtlehrveranstaltung zu wählen.																		
		WP	P 12.0.1			WS und SS	keine	Advanced Deformation and Transformation of Rocks 3	Seminar	2								(3)
		WP	P 12.0.2			WS und SS	keine	Advanced Surface Processes 3	Seminar	2								(3)
		WP	P 12.0.3			WS und SS	keine	Advanced Active Tectonics 3	Seminar	2								(3)
		WP	P 12.0.4			WS und SS	keine	Advanced Earth Magnetism 3	Seminar	2								(3)
		WP	P 12.0.5			WS und SS	keine	Advanced Isotope Geochemistry and Geochronology 3	Seminar	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen								
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
Aus den Wahlpflichtmodulen WP 6 bis WP 9 sind zwei Wahlpflichtmodule zu wählen.																		
(3.)	keine	WP	WP 6		Geodesy and Remote Sensing	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen WP 6.0.1 bis WP 6.0.4 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen.																		
Wer die Wahlpflichtlehrveranstaltung WP 6.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 11.0.1 wählen.																		
		WP	WP 6.0.1			WS	keine	Tectonic Geodesy	Integrierte Lernaktivität	4								(6)
		WP	WP 6.0.2			WS	keine	Earth Rotation and Solid Earth Physics	Integrierte Lernaktivität	5								(6)
		WP	WP 6.0.3			WS	keine	Photogrammetry and Remote Sensing	Vorlesung	2								(3)
		WP	WP 6.0.4			WS	keine	Earth Gravity Field	Vorlesung	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen					Modulprüfungen / Modulteilprüfungen							
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(3.)	keine	WP	WP 7		Complementary Fields II	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten	Benotung		beliebig	6
<p>Aus den Wahlpflichtlehrveranstaltungen WP 7.0.1 bis WP 7.0.8 ist eine Wahlpflichtlehrveranstaltung zu wählen.</p> <p>Wer die Wahlpflichtlehrveranstaltung WP 7.0.1 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 2.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 7.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 3.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 7.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 4.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 7.0.4 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 5.0.1 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 7.0.6 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 8.0.4 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 7.0.7 wählt, darf nicht die Wahlpflichtlehrveranstaltungen P 3.0.2 und P 5.0.2 wählen.                      Wer die Wahlpflichtlehrveranstaltung WP 7.0.8 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 8.0.3 wählen.</p>																		
		WP	WP 7.0.1			WS	keine	Rheology	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.2			WS	keine	Earth Surface Processes	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.3			WS	keine	Modern Active Tectonics	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.4			WS	keine	Geology of Mineral Deposits	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.5			WS	keine	Geochronology	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.6			WS	keine	Crust and Mantle Petrology	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.7			WS	keine	Sedimentary Basin Dynamics	Integrierte Lernaktivität	4								(6)
		WP	WP 7.0.8			WS	keine	Physics and Chemistry of Melts	Integrierte Lernaktivität	3								(6)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen					Modulprüfungen / Moduleilprüfungen							
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
(3.)	keine	WP	WP 8		Petrology II	WS					keine	MP	Klausur oder mündliche Prüfung oder schriftlicher Bericht oder Referat	90-120 Minuten oder 30-60 Minuten oder max. 10.000 Wörter oder 60 Minuten	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen WP 8.0.1 bis WP 8.0.5 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen. Wer die Wahlpflichtlehrveranstaltung WP 8.0.2 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 11.0.2 gewählt werden. Wer die Wahlpflichtlehrveranstaltung WP 8.0.3 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 7.0.8 wählen. Wer die Wahlpflichtlehrveranstaltung WP 8.0.4 wählt, darf nicht die Wahlpflichtlehrveranstaltung WP 7.0.6 wählen.																		
		WP	WP 8.0.1			WS	keine	Magma Dynamics and Physical Volcanology	Vorlesung	2								(3)
		WP	WP 8.0.2			WS	keine	Experimental Geochemistry	Vorlesung	2								(3)
		WP	WP 8.0.3			WS	keine	Physics and Chemistry of Melts	Integrierte Lernaktivität	3								(6)
		WP	WP 8.0.4			WS	keine	Crust and Mantle Petrology	Integrierte Lernaktivität	4								(6)
		WP	WP 8.0.5			WS	keine	Advanced Mineral Deposit Geology	Integrierte Lernaktivität	2								(3)
(3.)	keine	WP	WP 9		Critical Zone	WS					keine	MP	Klausur oder mündliche Prüfung	90-120 Minuten oder 30-60 Minuten	Benotung		beliebig	6
Aus den Wahlpflichtlehrveranstaltungen WP 9.0.1 bis WP 9.0.6 sind Wahlpflichtlehrveranstaltungen im Umfang von 6 ECTS-Punkten zu wählen. Wer die Wahlpflichtlehrveranstaltung WP 9.0.5 wählt, darf nicht die Wahlpflichtlehrveranstaltung P 11.0.9 wählen.																		
		WP	WP 9.0.1			WS	keine	Global Cycles: Tutorial	Übung	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen					Modulprüfungen / Modulteilprüfungen							
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
		WP	WP 9.0.2			WS	keine	Introduction to Soil Science	Vorlesung	2								(3)
		WP	WP 9.0.3			WS	keine	Geo- and Paleobiology	Integrierte Lernaktivität	4								(6)
		WP	WP 9.0.4			WS	keine	Bioconstruction	Übung	2								(3)
		WP	WP 9.0.5			WS	keine	Soil Science Methods	Übung	4								(6)
		WP	WP 9.0.6			WS	keine	Global Cycles: Lecture	Vorlesung	2								(3)
<b>4. Fachsemester</b>																		
	erfolgreiche Teilnahme an P 1 bis P 9 und einem Modul aus WP 1 bis WP 5	P	P 10 / II		Independent Scientific Research	SS												30
(4.)		P	P 10.1 / II			SS	keine	Master thesis	Masterarbeit		keine	MTP, MAA	Masterarbeit	24 Wochen, ca. 15.000 Wörter	Benotung		einmal, nächster Termin	(27 = 9+18)
(4.)		P	P 10.2			SS	keine	Thesis defense	Disputation		keine	MTP, DP	Disputation	45 Minuten	Benotung		einmal, nächster Termin	(3)
(4.)	keine	P	P 13		Modern Geology IV	WS und SS						MP	Referat	60 Minuten	bestanden/ nicht bestanden		beliebig	3
Aus den Wahlpflichtlehrveranstaltungen P 13.0.1 bis P 13.0.5 ist eine Wahlpflichtlehrveranstaltung zu wählen.																		
		WP	P 13.0.1			WS und SS	keine	Advanced Deformation and Transformation of Rocks 4	Seminar	2								(3)
		WP	P 13.0.2			WS und SS	keine	Advanced Surface Processes 4	Seminar	2								(3)

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle

1	Module					Lehrveranstaltungen				Modulprüfungen / Modulteilprüfungen							18	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Semester*	Zulassungsvoraussetzung	Pflicht (P) / Wahlpflicht (WP)	Kurzbezeichnung des Moduls bzw. der Lehrveranstaltung	Modul- bzw. Lehrveranstaltungsnummer (nicht satzungsrelevant)	Bezeichnung des Moduls	angeboten im	Zulassungsvoraussetzung	Bezeichnung der Lehrveranstaltung	Unterrichtsform	SWS	Zulassungsvoraussetzung	Prüfungsart*	Prüfungsform	Prüfungsdauer bzw. -umfang	Benotung bzw. bestanden/ nicht bestanden	Notengewicht	Wiederholbarkeit	ECTS-Punkte*
		WP	P 13.0.3			WS und SS	keine	Advanced Active Tectonics 4	Seminar	2								(3)
		WP	P 13.0.4			WS und SS	keine	Advanced Earth Magnetism 4	Seminar	2								(3)
		WP	P 13.0.5			WS und SS	keine	Advanced Isotope Geochemistry and Geochronology 4	Seminar	2								(3)
(4.)	keine	P	P 14		Communicating Science	SS					keine	MP	Referat und Schriftprobenmappe	insgesamt 120 Minuten und max. 15 Schriftproben	bestanden/ nicht bestanden		beliebig	6
		P	P 14.1			SS	keine	Scientific Writing	Workshop	2								(3)
		P	P 14.2			SS	keine	Scientific Presentations	Workshop	2								(3)

**Erläuterungen**

Zu Spalte 1:

Eingeklammerte Ziffern sind Empfehlungen; nicht eingeklammerte Ziffern legen verbindlich einen Regeltermin (§ 11) fest.

Zu Spalte 12:

MP = Modulprüfung / MTP = Modulteilprüfung / MAA = Masterarbeit / DP = Disputation

Zu Spalte 18:

Nicht eingeklammerte ECTS-Punkte werden mit Bestehen des zugehörigen Moduls (§ 10 Abs. 4 Satz 2) vergeben. Eingeklammerte ECTS-Punkte dienen lediglich der rechnerischen Zuordnung.

\*) Erläuterungen zu den Spalten 1, 12 und 18 am Ende der Tabelle