

**Examination and Study Regulations
for the International Elite Graduate Programme
Global Change Ecology (M.Sc.)
Elite Network Bavaria (ENB)
at the University of Bayreuth**

dated 5 August 2022

Article 13 para 1 sentence 2 in conjunction with Article 58 para 1 sentence 1 and Article 61 para 2 sentence 1 of the Bavarian Higher Education Act (BayHSchG) forms the framework for the following regulations issued by the University of Bayreuth.

In cases of legal dispute, only the German version is valid and legally binding.

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Annex 1: Modules, Credits Points and Examinations

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§ 1

- (1) Aim of the Graduate Programme and the Purpose of the Master's Examination ¹
The International Elite Graduate Programme Global Change Ecology in the Elite Network Bavaria is designed for particularly qualified, motivated and hard-working graduate students with previous degrees in science from Germany and abroad.²The teaching language in English reflects the internationalisation of the programme as well as the discussion of current research projects and results.³The variety of educational background and prior knowledge of the students is taken into consideration in the interdisciplinary programme, individual knowledge will be deepened and a profound scientific understanding of environmental relationships and social consequences concerning global environmental change will be taught.⁴ The students are mentored by highly motivated instructors; they receive individual counselling in an excellent academic framework.⁵ The elite graduate programme offers students the chance to position themselves advantageously on an international level while simultaneously studying for their degree.⁶ Practical training positions establish contacts between business, public administration, well-known research institutes as well as international organisations.⁷ The international elite graduate programme offers an excellent choice of courses that encourages the students' willingness to perform in a productive, useful and creative manner.
- (2) ¹The scientific Elite Graduate Programme Global Change Ecology in the Elite Network Bavaria ends with completion of the Master's Examination as stipulated in the present Examination Regulations after finishing the university programme to determine if the candidate has fulfilled the particularly rigorous demands and is a highly qualified, motivated, extremely able student of natural science.² The Master's Examination determines if the candidate has acquired the specialised knowledge and a wide enough grasp of the interdisciplinary relationships to be able to carry out further scientific work independently.³ After successful completion of the Master's Examination, The University of Bayreuth Faculty of Biology, Chemistry & Earth Sciences grants the candidate the academic degree Master of Science (abbreviated: M.Sc.)

§ 2
Admission to the Course of Studies, Qualifications

(1) Requirements for Admission to the Master's Programme are:

1. A university degree (or completed course of studies) in the Bachelor's programmes Biology, Geography or Geo-Ecology, Environmental Studies, Environmental and Resource Technology, International Economics & Development, Philosophy & Economics, Physics, a degree for teaching at public schools (Bachelor, first state examinations, Magister) or a law degree (Bachelor, Diplom, first law examination) at the University of Bayreuth or an equal degree.
2. The evidence as described in Annex 2.
3. Evidence of English language proficiency at the level of B2 according to the Common European Framework for Languages for applicants who did not earn their higher education entrance qualification or the initial degree qualifying them for admission in the English language. Applicants who are unable to meet this requirement are enrolled on the condition that they supply evidence of the the required language proficiency by the end of the second semester of study.
4. Evidence of German language proficiency at the level of A1 according to the Common European Framework for Languages for applicants who did not earn their higher education entrance qualification or the initial degree qualifying them for admission in the German language. Applicants who are unable to meet this requirement are enrolled on the condition that they supply evidence of the required language proficiency by the end of the second semester of study.

(2) ¹ When examining the equivalence of the degree, substantial differences regarding the skills learned (learning outcomes) listed in (1) No. 1 are not allowed. ² Decisions on the equivalence of a degree are made by the Board of Examiners established according to §4.

(3) ¹ If the bachelor's diploma (or a certificate of at least an equal University degree) is not yet available, confirmation of this, along with individual grades about all previous study and academic work done up to that period of time, must be submitted by the application deadline. ² This study and academic work must have a total of at least 135 ECTS points. ³ Applicants who fulfill the requirements according to sentence 2 and who have successfully passed the aptitude assessment will be enrolled with the condition that they submit a relevant diploma or final grade certificate by the end of the second semester.

(4) The language of instruction is English.

§ 2a
Early Qualification to Doctoral Studies ¹

Students can be accepted into the Bayreuth Graduate School of Mathematical and Natural Sciences (BayNAT) who have completed a university course with above average marks that relates to the doctoral programme and have completed at least one semester in a Master's programme relating to the doctoral programme.² Details are set out in the doctoral regulations (*Promotionsordnung*) of the doctoral programme in the Bayreuth Graduate School of Mathematical and Natural Sciences (BayNAT), dated 15 October 2009 as amended.

§ 3
Organisation of Course of Studies and Master's Examination, Standard Period of Study

- (1) The International Elite Graduate Programme, Global Change Ecology part of the Elite Network Bavaria is organised into modules in the following areas:
- (O) Overview Global Change Ecology (not graded)
 - (A) Environmental Change (graded)
 - (B) Ecological Change (graded)
 - (C) Societal Change (graded)
 - (M) Methods (not graded)
 - (F) Free Choice Module (individual module option, not graded)
 - (I) Internship (Practicum, not graded)
 - (S) Science Schools (Summer-/Winter School, not graded)
 - (T) Master's Thesis (graded)
- (2) ¹ The course of study is full time. ² The duration of study is four semesters (standard period of study) and includes the Master's Thesis and examinations.
- (3) ¹ The number of credit points is 120 according to the European Credit Transfer System (ECTS). ² The credit points are divided between the classes in the module areas listed in Paragraph 1: (O), (A), (B), (C), (M) and (F) with a total of 75 ECTS, as well as Practica (I) and Schools (S) (15 ECTS) and work on the Master's Thesis (30 ECTS) for a period of six months.
- (4) The programme can be started each Winter Semester.
- (5) ¹ The Master's Programme is normally organized into three semesters in which students attend class.² This is followed by one semester to complete the Master's Thesis.

§ 4 Board of Examiners

- (1) ¹ An Board of Examiners is designated for the necessary decisions concerning admission to the Master's programme as well as for the organisation and carrying out of the Master's Examination.² In accordance with these rules, the Board of Examiners carries out the examination procedure and, except for each members' own respective examinations and assessment thereof, makes all necessary decisions. ³The committee consists of a Chairperson and two further members; the Chairperson and the other members each have a substitute representative. ⁴ The Faculty Committee of the Faculty for Biology, Chemistry and Earth Sciences elects the members of the Board of Examiners and their substitute representatives for a five year term from among the instructors (*Art. 2 Abs. 1 Satz 1 Nr. 1 and 2 Bayerisches Hochschulpersonalgesetz*) in the Faculty of Biology, Chemistry and Earth Sciences who are involved in teaching the programme of study. ⁵ One acting representative each can be named as an external member from the Faculty of Applied Computer Science at the University of Augsburg and from the Faculty of Geosciences at the University of Würzburg. ⁶ The Board of Examiners elects its own Chair and a Deputy Chair from among its members.
- (2) ¹ The Board of Examiners has a quorum when a majority of members who are entitled to vote are present after all members have received an invitation at least three days ahead of that date. ² The Committee shall decide with the majority of votes cast in meetings. ³ Abstentions, secret ballots and transfer of voting rights are not allowed.⁴ In the event that a vote is tied, the Chair shall have the casting vote.
- (3) ¹ The Chair of of Examiners ensures that the provisions of the present regulations are adhered to. ² The Chair sends out invitations to the meetings of the Board of Examiners and chairs all discussions and resolutions of the Board of Examiners. ³ Instead of the Board of Examiners, the Chair has the power to make urgent decisions alone. ⁴ The Chair must immediately inform the other members of the Board of Examiners hereof, at the latest, by the next meeting. ⁵ In addition, unless specified to the contrary in these statutes, the Chair can transfer the execution of incumbent revocable tasks to members of the Board of Examiners. ⁶ The Chair can delegate tasks.
- (4) The Board of Examiners reports regularly to the Faculty Committee about the development of examinations and the duration of the programme and makes suggestions concerning reforms and changes in the present Examination Regulations.
- (5) ¹ The Board of Examiners records in writing all necessary measures in accordance with these statutes, including explanatory statements and applicable legal background. ² The President enacts appeal notification after having heard the Board of Examiners.

§ 5

Examiners and Observers

- (1) ¹ Examiners must be authorised to carry out examinations according to the Bavarian State Laws on Higher Education (please refer to BayHSchG) as well as the University Examination Regulations as amended (please refer to *HSchPrüferV*). ² All members of the University of Bayreuth can be enlisted as co-examiners who have successfully completed a relevant or comparable scientific course of studies.
- (2) ¹ If a university member who is authorised to hold examinations withdraws from the University of Bayreuth, the Board of Examiners can decide, upon being officially requested to do so by that member, that the individual remain as examiner for a reasonable period of time. ² Normally, examination entitlement remains for up to three years.
- (3) ¹ As long as the Chair of Examiners has made no other decision, the responsible instructor is also the examiner. ² If the instructor is not a member of those entitled to administer examinations according to Paragraph 1, the Chair designates an examiner at the beginning of the relevant semester.

§ 6

Disqualification due to Personal Involvement, Duty of Confidentiality

- (1) Art. 41 Paragraph 2 BayHSchG governs exclusion from deliberation and voting in the Board of Examiners as well as examination activity due to personal involvement.
- (2) Art. 18 Paragraph 2 BayHSchG governs the duty of confidentiality for the members of the Board of Examiners, the Examiner, Committee members and other individuals involved in all examination matters.

§ 7

Admission to Examinations

Enrolment in the International Elite Graduate Programme Global Change Ecology in the Elite Network Bavaria allows students to take examinations.

§ 8

Crediting of Competencies

- (1) The crediting of competences (learning outcome) is stipulated according to Art. 63 Paragraphs 1 and 2 *BayHSchG*.
- (2) ¹ The grades of competencies that are accepted (as long as the grades are comparable) are to be taken over and included in the calculation of the total grade. ² If the grading system for the competencies to be transferred does not correspond to the grading system given in § 16, the grades from the other higher education institution are to be converted using the Modified Bavarian Formula:
- $$x = 1 + 3 \cdot (N_{\max} - N_d) / (N_{\max} - N_{\min})$$
- where x is the grade to be calculated, N_{\max} is the highest possible grade, N_{\min} is the highest passing grade, and N_d is the actual grade; in this calculation, the grade to be calculated is only given to one decimal place and is not adjusted to fit the grading scale given in § 16. ³If a conversion according to sentence 2 is not possible, the board of examiners shall determine an appropriate key for the conversion of grades. ⁴If a grade is not available and cannot be determined, the remark "passed" shall be included; in this case, it shall not be included in the overall examination grade. ⁵The board of examiners shall decide on the fulfilment of the prerequisites for credit transfer in consultation with the responsible subject area representative. ⁶If the credit is refused, the person concerned may apply for a review of the decision by the University Governing Board within a period of four weeks after notification of the refusal. ⁷The University Governing Board shall give the board of examiners a recommendation on the further handling of the request.
- (3) Credit transfer requests are to be submitted to the board of examiners as soon as possible following enrolment and in any event prior to registering for the relevant module.

§ 9

Examination Dates, Announcement of Examination Dates and of Examiners

- (1) ¹ The module examinations take place at the end of each respective module. ² A further examination date can be set at the beginning of the following semester.
- (2) ¹ Each respective examiner determines the examination date, the deadline in which written work that will be graded must be submitted, the examination form – if it is not predetermined in the annex – and the duration of the examination. Normally, these dates are made public at the beginning of each respective semester. ² A change in examiners at short notice is only permitted for very compelling reasons.
- (3) Registration for individual examinations takes place within each deadline that has been publicly announced according to the process determined by the Board of Examiners.

§ 10

Examination Components

- (1) The Master's Examination consists of module examinations as stated in the Appendix of Modules, along with the Master's Thesis.
- (2) The examinations are to prove that the examinee has achieved the respective competency goals.

§ 11

Examination Forms

- (1) ¹Examinations can take place as written or oral examinations, as presentations, contributions, or written works. ² They relate to the learning goals of each respective course or courses. ³In individual cases, the record of achievement can be done as teamwork. ⁴The examination forms of the corresponding modules are given in the annex.
- (2) ¹ Examination results will be announced according to the proceedings as determined by the Board of Examiners. ²There is no notification of individual results. ³ Students are solely responsible for informing themselves in a timely manner of their results as well as the rules concerning re-taking examinations.
- (3) ¹Where a graded piece of work is assessed by more than one examiner, the grade is determined by forming the average of the grades awarded; In averaging grades, only the first decimal digit after the comma is kept; all further digits are dropped. ²If a written examination is assessed as "failed" or "unsatisfactory", it must be assessed by a second examiner.
- (4) ¹Examinations are at least one hour long – and at the maximum, they can last two hours. ²Each respective examiner authorises which tools and aids will be allowed during the examination. ³Minutes are to be kept about the examination. ⁴The exam proctor must confirm the correctness of the exam by signing the minutes. ⁵The minutes must contain all incidents that occurred during the examination that might be relevant in determining the results.
- (5) ¹ If a candidate arrives late for an examination, that individual cannot be given extra time to make up for lost time. ²Leaving the examination room is allowed with the proctor's permission. ³Time and length of absence are to be noted on the examination paper.
- (6) ¹Each respective examiner normally corrects the examinations. ²Each respective examiner sets the grades for individual tests of performance according to § 16 or grades corresponding to (12). ³Examination results must be made available at the latest four

weeks after completion of each respective exam. ⁴The corrected copy of written examination work remains in the examination files.

- (7) ¹In cases of oral examinations, the length of the exam is between 20 and 30 minutes, depending on the requirements of the relevant course. ²The oral examination is carried out in English by two examiners or one examiner and one observer. ³An examiner or observer shall draw up minutes of the oral examination which contains the following information: Place and time as well as length of the examination, subject matter and results of the examination, names of the examiners or of the examiner and the observer, the name of the candidate as well as any special incidents. ⁴The examiners or the examiner and the observer must sign the minutes. ⁵The final grades for the oral examinations are set by the examiners or by the examiner according to § 16 or corresponding to (12).
- (8) ¹Students who would like to take the same examination within the next two semesters are given preference in being allowed to be present during an examination, subject to the availability of the premises. ²A candidate may request that listeners not be allowed. ³Discussion and notification of examination results do not take place publicly.
- (9) ¹Written works are to be completed as part of the course on which they were based. ²The responsible examiner determines the topic in agreement with the candidate. ³The time limit for written work is normally between two and eight weeks; the deadline is set at the same time as the topic is determined. ⁴The topic of the work must be such that it can be completed within the deadline. ⁵In duly substantiated exceptional cases, the Chair of Examiners can extend the deadline at least two weeks if so requested by the candidate after consulting the examiner. ⁶The deadline is postponed if the candidate presents medical proof that due to illness he or she is unable to complete the work. ⁷Work that is not submitted within the deadline is to be assessed as “not sufficient.” ⁸The examiner determines the grade of the written work according to § 16 or grades corresponding to (12). ⁹Paragraph 6, Articles 2 and 4 are valid for work that has been determined to be “not sufficient”. ¹⁰Graded copies of respective work remain in the examination files. ¹¹Written work can be supplemented by a presentation in which the written work is presented.
- (10) ¹For presentations with written assignment, the topic, duration, and scope are to be clarified with the examiner. ²The duration of a presentation may be from 15 to 45 minutes, depending on the workload. ³The performance is either graded on a pass/fail basis (alternative 1) or according to § 16 (alternative 2). ⁴In case of sentence 3 alternative 1 the result of the examination does not contribute to the final grade.
- (11) ¹Contributions are written or oral expositions of subject-related content on a scientific discussion according to certain criteria and are completed as an individual or group assignment (brief talks of 5 to 10 minutes, brief poster presentations of 5 to 10 minutes,

conference simulations, workshop simulations involving work on projects and proposed solutions, debates, discussions, elaborations of project proposals, etc.). ²The topic, form, and scope are announced to the student by the relevant examiner. ³Contributions are graded on a pass/fail basis.

- (12) ¹Examinations in the Modules O (Global Change Ecology Overview), M (Methods), F (Free Choice), I (Internships) and S (International Science Schools) are to be graded on a pass/fail basis² These marks are not taken into consideration in the overall grade according to § 17.

§ 12

Master's Thesis

- (1) ¹With the Master's Thesis the candidate shows that he or she is able to do independent scientific research on a particular topic with suitable aids and tools and to present it in appropriate written form. ²Interdisciplinary questions can be included in the topic.
- (2) ¹Chair of Examiners shall determine the examiners as advisor and assessor, if possible in agreement with the candidate. ²The examiner (§ 5 Abs. 1) normally assigns the topic of the Master's thesis at the end of the third semester of the programme. ³The assignment date is to be recorded in the files.
- (3) ¹Work on the Master's Thesis normally takes place in the fourth semester and, at the most, should encompass 900 working hours. ²The period of time from topic assignment to submission of the Master's Thesis may not exceed six months. ³The chair of examiners is to keep a record of the date on which the topic was assigned. ⁴The time limit remains dormant if the candidate submits medical proof that he or she is unable to carry out the work. ⁵Work that is not submitted on time is to be assessed as "not sufficient".
- (4) ¹The Master's Thesis is to be submitted in English. ²The Master's Thesis contains a statement by the author at the end of the thesis that he or she did the work entirely on his or her own and did not use any other sources, aids or tools than those given in the work and that the work has not already been submitted to achieve another academic degree.
- (5) ¹Four copies of the work must be submitted within the deadline at the Examinations Office. ²Submission must be recorded in writing.
- (6) ¹Three copies of the Master's Thesis are to be submitted in typewritten, paginated and bound form. ²The work must have a table of contents and a list of references. ³One copy is to be submitted electronically.
- (7) ¹The candidate can return the topic to the board of examiners once within the first two weeks. ² Paragraphs 1 to 6 are valid for assignment of, and work on, a new topic.

- (8) ¹ The Examinations Office hands the work on to the relevant assessors (supervisors). ² The expert reports must be handed in at the latest two months after the work was submitted. ³ Each expert makes a recommendation to the Board of Examiners on acceptance or rejection of the work and at the same time determines a grade according to the assessment system listed in § 16. ⁴ The Board of Examiners can bring in another expert in special cases, particularly when different assessments vary more than one grade from one another.
- (9) ¹ The final grade for the Master's Thesis is determined arithmetically when different grades have been given to it. ² In averaging grades, only the first decimal digit after the comma is kept; all further digits are dropped without rounding.
- (10) In cases of an assessment of "not sufficient" of the Master's Thesis, the Chair or his or her representative on the Board of Examiners informs the candidate.
- (11) One copy of the Master's Thesis remains with the examination files.

§ 13 **Credit Point System**

- (1) ¹ Each student enrolled in the program is given a credit point account at the Examinations Office for his or her successful module work. ² The particular credit points are identical with the credit points according to the European Credit Transfer System (see Appendix 1). ³ One credit point corresponds to 30 hours of work.
- (2) The credit points of each module can be found in the Appendix.

§ 14 **Allowance for Special Life Situations**

- (1) ¹ The ability to make use of protection periods outlined in the Maternity Protection Act (MuSchG) must be guaranteed. ² Upon application, the ability to take parental leave in accordance with the Federal Parents' Allowance and Parental Leave Act (BEEG) as well as the periods for the care of a close relative within the meaning of § 7 para 3 of the Nursing Period Act (PflegeZG) who is in need of care within the meaning of §§ 14, 15 of the Eleventh Book of the Social Law Book (SGB XI) shall be guaranteed. ³ Relevant pieces of evidence must be produced; changes in conditions must be promptly communicated.
- (2) ¹ Upon request, duration of study time will not be counted towards examination deadlines during periods in which it was not possible to study, or when it was only possible to study in a very limited way. ² Relevant pieces of evidence must be produced; in case of illness,

medical evidence must be submitted. ³ Changes in conditions must be promptly communicated.

§ 15 Consideration of the Special Needs of Persons with a Disability or Chronic Illness

¹In order to safeguard their equal opportunities, the special situation of examinees with disabilities or chronic illness shall be taken into consideration in an appropriate manner. ²The board of examiners shall determine, at the written request of the examinee, and according to the severity of the proven examination disability or chronic illness, the form in which the examination is to be rendered or shall grant an extension of the working time or some other reasonable accommodations. ³Proof of the examination disability or chronic illness shall be furnished in the form of a medical certificate stating that due to a prolonged or permanent disability or a chronic illness the examination cannot be taken in whole or in part in the intended form. ⁴The application shall be enclosed with the registration for the examination. ⁵If the application is submitted later, it shall only apply to future examinations.

§ 16 Examination Grades/Marks

(1) The following grading scale is used to assess individual examination results. The interim values make a differentiated assessment of exam results possible:

"Very good" (excellent)	= 1,0 or 1,3
"Good" (substantially above average)	= 1,7 or 2,0 or 2,3
"Satisfactory" (average)	= 2,7 or 3,0 or 3,3
"Sufficient" (despite deficiencies still meets requirements)	= 3,7 or 4,0
"Not sufficient" (due to substantial deficiencies does not meet requirements)	= 5,0

(2) ¹When a module examination is based on several exam results, the module note is calculated arithmetically from all of the grades weighted with credit points. ²In averaging grades, only the first decimal digit after the comma is kept; all further digits are dropped without rounding. ³The module grades are as follows:

with an average including 1,5	= very good
with an average from 1,6 up to and including 2,5	= good
with an average from 2,6 up to and including 3,5	= satisfactory
with an average from 3,6 up to and including 4,0	= sufficient.

§ 17 Final Grade/Mark

- (1) ¹ The final grade for the Master`s Examination is calculated from the average module grades from the modules areas A (Environmental Change), B (Ecological Change) and C (Societal Change) and the grade of the Master`s Thesis that have all been weighted with the relevant credit points. ² In averaging grades, only the first decimal digit after the comma is kept; all further digits are dropped without rounding. ³ If more than 11 modules are completed in the core elective areas A, B, C, the modules with the best grades shall be included in the calculation of the overall grade. ⁴ Voluntary additional examinations in the core elective areas A, B, C are not included in the calculation of the overall grade.
- (2) The candidates receive a total exam grade for having successfully completed the Master`s Examination with a grade average up to 1,2 as “excellent”, up to 1,5 as “very good”, up to 2,5 as “good”, up to 3,5 as “satisfactory”, up to 4,0 as “sufficient”.
- (3) The calculation of the total exam grade must be clearly visible in the diploma or in the report attached to the diploma.
- (4) ¹ In addition to the degree certificate, an ECTS grading table will be issued as stipulated in the ECTS guidelines in the version dated 6 February 2009. ² This table displays what percentage of programme graduates in a given time frame received the same final grade as described in para 2. ³ Those programme graduates who were awarded their diplomas in the previous four semesters shall serve as the reference group as long as it includes at least 30 persons. ⁴ The date of the last examination shall be decisive in assigning graduates to a particular semester. ⁵ If the minimum number of graduates is not reached, the number of previous semesters is to be extended until the minimum number is reached. ⁶ If the programme of study does not yet have as many graduates as the minimum number required of the reference group, an ECTS grading table will be issued as soon as the minimum number is reached. ⁷ For degrees awarded before the minimum number is reached, an ECTS grading table will be issued at a later date upon request once the minimum number has been reached. ⁸ The graduate's own graduating class is also to be included in the reference group. ⁹ The size of the reference group and the time frame is to be included.

§ 18

Passing the Master`s Examination

- (1) ¹ The Master`s Examination is passed only when the grade for the Master`s Thesis and for each module area is at least, “Satisfactory” and the candidate has achieved all the required 120 credit points. ² There is no obligation to repeat additional examinations that were failed.
- (2) ¹ A candidate fails the Master`s Examination when, due to reasons for which they are themselves responsible, he or she has not sufficiently achieved all requirements specified

in Paragraph 1 by the end of the sixth semester. ²Examinations that have already been passed within the deadline do not have to be repeated.

- (3) ¹The Master's Examination is considered as definitely failed in cases when the candidate has not retaken missing exams for reasons for which he or she is responsible within one year according to Paragraph 2, Article 2 of the specified deadline or when the possibility to retake examinations has been exhausted. ²The deadline is not extended due to withdrawal or a leave of absence. ³Notices of failing on the final attempt are sent under the terms of § 4 para 5 in conjunction with Article 41 Bay VwVfG as amended. ⁴Students may be granted an extension by the Board of Examiners on written request submitted prior to the deadline given in sentence 1 for exceptional reasons beyond their control.

§ 19

Repeating an Examination

- (1) Any failed examination may be repeated several times within the time limit of § 18.
- (1) ¹To improve a grade, up to two passed examinations may be retaken on a voluntary basis. ²Beyond this, voluntary repetition of an already passed examination is not permissible. Voluntarily redoing the Master's Thesis is not permissible.
- (2) ¹It is permissible to retake an exam a second time in only three examinations. ²Para 1 sentence 2 applies accordingly. ³When examinations have been failed after the second attempt, the Master's Examination is considered as definitely failed.
- (3) The repetition can be held as an oral examination, even if the previous examination was in written form; this is determined by the examiner.
- (4) The organisation of the study programme must take measures to ensure that in normal cases, repetition of a failed examination or a failed Master's Thesis is possible within a deadline of six months

§ 20

Notification of the Failed Master's Examination

A decision on final failure of the master's examination shall be issued in accordance with § 4 para 5 in conjunction with Art. 41 BayVwVfG.

§ 21

Viewing of Examination Files

- (1) After ending an examination, candidates may view their examination files, the relevant expert assessment of the examination and the minutes of the examination.
- (2) ¹The documents must be viewed within six months of issuance of the certificate. ²If the candidate was prevented from meeting the deadline in sentence 1 due to reasons beyond his or her control, Article 32 of the Bavarian Administrative Process Act (please refer to BayVwVfG) shall apply.

§ 22

Deficiencies/Flaws in the Examination Procedure

- (1) Should it be known that the examination procedure was deficient or flawed in ways that influenced examination results, it can be prescribed that the candidate upon request, or officially, be able to retake the respective examination.
- (2) Deficiencies or flaws in the examination procedure must be communicated immediately to the Chair of Examiners or made known to the examiner; this must generally occur before disclosure of the examination results.
- (3) Injunctions cannot be made six months after the end of an examination as specified in Paragraph 1.

§ 23

Unexcused Absence, Withdrawal, Deception, Breach of Regulation

- (1) ¹Candidates who have registered for an examination may, upon written request without giving specific reasons, withdraw from the examination at the latest by the deadline made public by the Board of Examiners. ²A candidate fails an examination when he or she has registered for that examination and does not show up for the exam or does not withdraw from an examination after expiry of the deadline specified in (1) due to reasons for which he or she is responsible.
- (2) ¹Reasons for non-compliance or withdrawal, as far as Paragraph 1, Article 1 do not apply, must be immediately notified and made evident to the Board of Examiners. ²The same applies for an inability to take the examination that occurs before or during an examination. ³Medical evidence due to illness must be submitted. ⁴When the Board of Examiners accepts the reasons, a new examination date within six months according to § 9 must be set.

- (3) In cases of non-compliance or withdrawal due to reasons for which the candidate is responsible, already passed examinations are to be accepted.
- (4) ¹Where a student attempts to influence the result of an exam through deception or the use of non-admissible aides, such an examination will be graded as "unsatisfactory" ²A candidate who considerably disrupts the proper functioning of an examination can be excluded from continuing to complete the examination by the respective examiner or by the proctor or invigilator; in this case the respective grade will be given as "unsatisfactory".
- (5) ¹If a deception in the form of plagiarism is detected, the examination component is to be assessed as "unsatisfactory". ²The allegation of plagiarism is justified if the examination candidate has attempted to influence the result of the examination in a manner favourable to him or her by omitting to identify passages taken literally from other authors or to indicate statements of his or her work which closely follow the thought processes of other authors. ³The statement shall be made and recorded by the relevant invigilator or examiner. ⁴In serious cases or in the case of repetition, the entire module examination may be considered as failed and, in particularly serious cases, the right to repeat the examination may be denied and the entire module examination may be considered as failed on the final attempt. ⁵The decision on this is made by the board of examiners. ⁶When making a decision on the imposition of the sanction, both the quantity of the plagiarism and its significance for the work must be assessed in each individual case.

§ 24

Invalidity of the Master's Examination

- (1) Where a candidate has cheated during an examination and this fact has only been made known after issuing of the diploma, the Board of Examiners can retroactively correct the relevant grade and can declare the examination either completely or partially as failed.
- (2) ¹Where the requirements for admission to the examination were not fulfilled without the candidate having wanted to deceive and where this fact has only become known after issuing the certificate, this flaw is considered as compensated when the examination has been passed. ²Where the candidate has attained admission intentionally deceitfully, the Board of Examiners makes a decision taking into consideration general principles of administrative law on revoking illegal administrative acts.
- (3) The candidate is given an opportunity to submit a statement before a decision is made.
- (4) The incorrect Examination Certificate is to be returned and, depending on the circumstances, to be replaced by a new one.

§ 25

Awarding the Master's Degree, Official Diploma

- (1) ¹ An official diploma and a certificate showing completion of the Master's Examination are to be issued within four weeks after submission of grades for all the Module Areas. ² The official diploma contains the title of the programme. ³ The Dean of the Faculty of Biology, Chemistry & Earth Sciences signs the certificate that also shows the official University seal. ⁴ Upon issuance of the official diploma, the graduate is allowed to use the academic title "Master of Science". ⁵ This title is placed after the family name with the abbreviation "M.Sc."
- (2) ¹ The certificate contains the name of the programme, the final grade, the module examinations with each respective grade and credit points, topic and grade of the Master's Thesis. ² The Chair of Examiners signs the certificate. ³ The date on the certificate is the date on which the last requirement for the final grade was accomplished. ⁴ In addition, an English translation of the diploma and a Diploma Supplement are to be issued; the translation of the diploma is to be signed by the dean, and the Diploma Supplement is to be signed by the Chair of Examiners. The legal provisions determine withdrawal of the Degree "Master of Science". (*Art. 69 BayHSchG*). An ECTS grading table as given in § 17 para 4 will be issued in addition to the certificate.
- (3) Withdrawal of the Degree "Master of Science" is governed by *Art. 69 BayHSchG*.

§ 26

Academic Advising

- (1) General student advising is offered by the University of Bayreuth's Student Advising Office.
- (2) The programme advisor for the master's programme Philosophy & Economics is to be responsible for questions relating to the master's programme (i.e. structure of the programme, organization of studies, course selection, and questions concerning examinations).

- (3) ¹In the course of the semester, the programme advisor shall offer advising for all students enrolled in the master's programme. ²Advising is recommended especially for the following:
1. new students,
 2. students who recently failed an examination,
 3. students who have considerably less than 30 credit points per semester,
 4. students transferring from a different degree programme or university,
 5. prior to selecting specializations (if needed),
 6. prior to going abroad for study or an internship.

§ 27

Effective Date and Transitional Provisions

- (1) ¹These regulations become valid on the date of their notification. ²They are valid for all students enrolling for the first time in this program starting in Winter Semester 2020/2021. ³The other students organise their program according to the previous Examination Regulations for the International Elite Graduate Programme Global Change Ecology (M.Sc.) within framework of the Elite Network Bavaria (ENB) at the University of Bayreuth dated 20 December 2012 (AB UBT 2012/076), last modified by the fifth amended version dated 7 June 2019 (AB UBT 2019/015); upon request they may organize their programme according to these Rules and Regulations.
- (2) The Examination Rules and Regulations for the International Elite Graduate Programme Global Change Ecology (M.Sc.) within framework of the Elite Network Bavaria (ENB) at the University of Bayreuth dated *20 December 2012 (AB UBT 2012/076)*, last modified by the fifth amended version dated 7 June 2019 (AB UBT 2019/015), cease to be in force, subject to the provisions in Paragraph 1 sentence 3.

*)

Any gender-specific language used in these regulations applies to both men and women. Changes will not be made to the wording of the individual regulations.

Annex 1: Modules, Credit Points and Examinations

Slashes ("/") between examination forms indicate alternative examination forms.

Areas Modules	ECTS Points	Examinations
O Global Change Ecology Overview	5	Contribution
A Environmental Change	At least 15	
A1 Climate Change	5	Oral Examination + Contribution
A2 Ecological Climatology	5	Written Elaboration + Presentation + Written Elaboration
A3 Extreme Events and Natural Hazards	5	Contribution + Presentation
A4 Changes in Aquatic Ecosystems	5	Written Examination + Presentation
A5 Changes in Agroecosystems	5	Written Examination + Presentation
A6 Biogeochemical Fluxes	5	Written Elaboration + Presentation
A7 Rhizosphere Research	5	Oral Examination + Presentation
A8 Biodiversity in the Tropics	5	Seminar Presentations
A9 Mathematical Modeling for Climate and Environment	5	Oral Examination
A10 Land Use Change and Microclimate	5	Written Elaboration + Presentation
B Ecological Change	At least 15	
B1 Biogeography and Macroecology	5	Presentation + Written Examination
B2 Biodiversity and Ecosystem Functioning	5	Written Elaboration
B3 Disturbance Ecology	5	Presentation + Written Examination
B4 Spatial Ecology	5	Presentation + Written Elaboration
B5 Global Change Impacts on Species Distributions	5	Contribution + Written Elaboration
B6 Soil Carbon and Global Change	5	Written Examination + Written Elaboration + Presentation
B7 Remote Sensing in Landscape Ecology	5	Written Elaborations
B8 Dynamic and Vegetation Ecology	5	Presentation + Written Elaboration
B9 Paleoecology and Paleobiology	5	Written Elaboration / Presentation / Written Examination / Oral Examination
C Societal Change	At least 15	

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Areas Modules	ECTS Points	Examinations
C1 Climate Policies and Economics	5	Contribution + Written Elaboration
C2 Ecosystem Services	5	Written Examination + Contribution
C3 Global Economy	5	Contribution + Presentation + Written Elaboration
C4 Global Policy and Governance	5	Presentation + Contribution
C5 Socio-economic and Political Dimensions of Global Change	5	Contribution (passed) + Written Elaboration
C6 Sport Ecology	5	Written Elaboration / Presentation / Written Examination / Oral Examination
C7 Land Use Policies, Markets and Ecosystems	5	Written Elaboration + Contribution
C8 Biodiversity, Climate Change and Health	5	Written Elaborations + Contribution + Presentation
Total Sum of Areas A, B, C (including 2 specialization modules from A, B, or C)	55	

Where more than 11 modules were achieved in the Areas A, B, C, the respective modules with the best grades are used to calculate the final grade. In the Areas A, B, C, at least 3 modules must be included.

Area Modules	ECTS Points	Examinations
M Methods	10	
M Methods	10	Written Examination / Oral Examination / Presentation / Contribution / Written Elaboration
F Free Choice	5	
F Free Choice	5	Written Examination / Oral Examination / Presentation / Contribution / Written Elaboration
I Internships	At least 5	
I1 Internship in Economy	5/10*)	Written Elaboration
I2 Internship in Science	5/10*)	Written Elaboration
I3 Internship in Administration	5/10*)	Written Elaboration
I4 Internship in International Organization	5/10*)	Written Elaboration
S International Science Schools	At least 5	
S1 Science School (one week)	2	Written Elaboration

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Area Modules	ECTS Points	Examinations
S2 Science School (one week with preparation and follow-up)	3	Written Elaboration
S3 Science School (two weeks)	5	Written Elaboration
S4 Science School (four weeks; two weeks with preparation and follow-up)	10	Written Elaboration
Total Sum of Areas I, S	15	
T Master's Thesis	30	Master's Thesis
Total Sum	120	

Annex 2: Aptitude Assessment Process

In accordance with Article 43 para 5 sentence 2 BayHSchG, the applicant's aptitude for enrolment in the international degree programme (part of the Elite Network of Bavaria) Global Change Ecology (M.Sc.) at the University of Bayreuth is determined as described in § 2 para 1 number 2 of the present regulations.

1. Purpose of the Aptitude Assessment Process

¹The objective of the programme of study Global Change Ecology is to educate graduates up to the degree Master of Science (M.Sc.), putting them in a position to develop strategies of dealing with predicted global changes. ²The programme is geared solely towards students who have a thorough understanding of the causes and processes of global changes (climate, material cycles, etc.), the resulting ecological effects (loss of biodiversity, limited ecosystem functions, etc.), the social and political changes and mitigation necessary in this context (international agreements, laws, etc.); students must also have a strong educational background in the field, a strong command of English, and the required ability to reflect and argue.

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2. Selection Committee

¹A committee is responsible for preparing and conducting the aptitude assessment process. ²The committee is made up of at least three instructors involved in the degree programme who are appointed by the faculty council of the Faculty of Biology, Chemistry & Earth Sciences for a period of five years. ³At least one additional instructor is appointed as a substitute member. ⁴Additional persons who are principally employed as members of the academic staff and are authorized to administer examinations can also be on the committee. ⁵However, the majority of the members must be university instructors. ⁶The committee elects a chair from among its members.

3. Process for Assessing Aptitude

3.1 ¹The aptitude assessment process is offered once a year in the summer semester. ²The application for admission to the aptitude assessment process is to be submitted to the University of Bayreuth online. ³The online application form is provided on the internet pages of the University of Bayreuth. ⁴The online application form must be received electronically by the University of Bayreuth by 15 June (application deadline) for admission in the following winter semester.

3.2 ¹The complete application as described in number 3.1 sentence 2 is to be submitted together with the following:

- a) a detailed overview (up to two pages) of your specific knowledge, skills, and aptitude for the programme of study written in English
- b) a certificate of the relevant initial degree and transcript of records listing previous examinations and coursework; if the certificate of the relevant initial degree is not yet available, confirmation of all examinations and coursework completed up to the time of application (totalling at least 135 ECTS points) is to be submitted
- c) if applicable, evidence of any visits, internships, or foreign language courses abroad
- d) the names and addresses of two scientific experts in the field who can serve as references
- e) a copy of the applicant's higher education entrance qualification
- f) a CV to serve as a basis for the interview (number 5.2)
- g) if applicable, a request for consideration for allowances described in § 15 of the present regulations.

²The documents given in sentence 1 items b and c can be submitted up to 15 July.

4. Admission to the Aptitude Assessment Process

- 4.1 Admission to the assessment process requires that the documents listed in number 3.2 be submitted on time, in full, and in the required form.
- 4.2 The aptitude assessment process is carried out with the applicants who meet the requirements.
- 4.3 Applicants who are not admitted will receive a notice including the rationale and information on how to appeal the decision; number 6.3 applies *mutatis mutandis*.

5. Conducting the Aptitude Assessment Process

5.1. Preselection (the first stage of the aptitude assessment process)

¹On the basis of the documents submitted and specific skills and knowledge outlined, the committee decides whether the applicant is qualified and suited for the degree programme Global Change Ecology (M.Sc.) (part of the Elite Network of Bavaria). ²The committee's assessment is based on the following criteria:

5.1.1. ¹The grade for the relevant bachelor's examination or the average grade of all assessment components completed up to that time if the certificate of the relevant initial degree is not yet available (weighting: 1:1) ²Specific conversion factors may be applied in the case of international applicants.

5.1.2. The written overview described in number 3.2 item a and any evidence described in number 3.2 item c are graded on a scale of 1 to 5 (1 = very good, 2 = good, 3 = satisfactory, 4 = sufficient, 5 = unsatisfactory; weighting: 1:1); In accordance with number 1 sentence 2, the assessment is based on the skills and abilities relating to ecological and social issues as outlined in the written overview and on excellent verbal abilities.

5.1.3 A value to one decimal place (truncated, not rounded) is calculated by taking the sum of previous grades (weighting 1:1) and the written overview (weighting: 1:1).

5.1.4 ¹Applicants with 4.0 points or more or with a letter of motivation that receives a grade of worse than 2 (good) will not be involved in the further course of the assessment process. ² They will receive a notice including the rationale and information on how to appeal the decision; number 6.3 applies *mutatis mutandis*.

5.2 Interview (the second stage of the aptitude assessment process)

5.2.1 ¹The remaining applicants will be invited to an interview. ²The date and time of this interview will be announced at least one week in advance. ³Applicants who fail to appear at this time will be denied admission. ⁴If the applicant is not able to attend the interview for reasons beyond his or her control, another appointment will be scheduled at least two weeks prior to the start of lectures.

5.2.2 ¹The interview is conducted by two members of the committee or by one member of the committee and a co-assessor (research associate) with one applicant at a time. ²The interview is held in English and lasts between 15 and 30 minutes; it should demonstrate whether the applicant can be expected to reach the objective of the degree programme. ³In this interview, it should be ascertained whether the applicant has a solid understanding of – and skills in – ecological and social issues as described in number 1 sentence 2 as well as the ability to argue and reflect as is required in the degree programme (part of the Elite Network of Bavaria). ⁴The applicant's verbal skills in the English language are also to be considered. ⁵The interview is graded on a scale of 1 to 5 (1 = very good, 2 = good, 3 = satisfactory, 4 = sufficient, 5 = unsatisfactory) by each assessor. ⁶If the grades diverge, the average is to be taken to one decimal place. A written record of the interview is to be made for the interview including details about the participants, time, location, duration, and evaluation as described in number 5.2.3. ⁸The written record must also include the topics discussed with the applicant and the rationale for the assessment. ⁹The topics and rationale can be recorded as bullet points. ¹⁰The record is to be signed by each assessor.

5.2.3 A value (to one decimal place; truncated, not rounded) is calculated by taking the sum of the grades for previous examinations and coursework (weighting: 1:1) as described in number 5.1.1 and the assessment of the interview as described in 5.2.2 sentences 5 and 6.

5.2.4 The aptitude assessment test is passed if the points described in number 5.2.3 amount to less than 4.0 and the letter of motivation received a grade of 2 (good) or better.

6. Determining and Announcing the Results

6.1 ¹A record sheet of the course of the process is to be completed and must include the date and location, the names of the committee members, the names of the

applicants, and the committee's decision as given in number 5.2.4. ²The record sheet is to be signed by the chair of the committee.

- 6.2. The decision of whether the applicant is suited for the programme is made by the committee on the basis of the results as described in number 5.1.4 and number 5.2.4.
- 6.3 ¹The applicants will receive notice of the outcome of the aptitude assessment process. ²Letters of denial are sent together with a rationale and information on the applicant's right to appeal. ³In the scope of the supervisory obligations detailed in Article 20 para 3 sentence 1 BayHSchG, the University Governing Board will inspect a random sample of 10% of denials; the chair of the committee will provide the University Governing Board with the corresponding number for the process.
- 6.4 Admission granted in the scope of the aptitude assessment process for the master's programme Global Change Ecology (M.Sc.), part of the Elite Network of Bavaria (ENB), applies to all following applications to the programme as long as no considerable changes are made to the content and objectives of the programme such that the earlier aptitude assessment process can no longer be considered as demonstrating suitability.

7. Repetition and Conditional Enrolment

- 7.1 Applicants who do not demonstrate their eligibility for the master's programme Global Change Ecology (M.Sc.), part of the Elite Network of Bavaria (ENB), can register for the aptitude assessment process again.
- 7.2. Applicants who cannot yet submit a certificate of a relevant initial degree or final certificate that is recognized as equivalent can be enrolled for two semesters if it is possible for them to earn 4.0 points or less as given in number 5.2.4 once they submit their degree certificates by the end of the second semester.

Issued on the basis of the decision by the Senate of the University of Bayreuth on 27 July 2022 and the approval of the President of the University of Bayreuth on 4 August 2022 Az. A 3391 – I/ 1.

[university seal]

Bayreuth, 5 August 2022

UNIVERSITY OF BAYREUTH

THE PRESIDENT

[signature] Professor Dr. Stefan Leible

These regulations were laid down on 5 August 2022 in the university, which was announced on 5 August 2022 by a notice at the university. The date of the announcement is the 5 August 2022.