

Please note that this document is a non-binding convenience translation. Only the German version of the document entitled "Prüfungsordnung der Universität Heidelberg für den Masterstudiengang Matter to Life" of 15 January 2019 has legal validity.

Heidelberg University examination rules and regulations for the Master's degree programme Matter to Life

dated 15 January 2019

Preamble

All titles in this document, be they official, job, status or functions, are used in masculine form, however they refer to men and women equally and may also be used in the corresponding feminine form.

Section I: General provisions

- § 1 Purpose of the academic programme and examination
- § 2 Master's degree
- § 3 Standard period of study, programme structure and range of courses offered
- § 4 Modules, credits and transcript of grades
- § 5 Examinations board
- § 6 Examiners and observers
- § 7 Recognition of course credits, examination results and academic degrees
- § 8 Unexcused absences, withdrawal, deception and breaches of regulations
- § 9 Types of examination component completed during the course of study
- § 10 Oral examination components completed during the course of study
- § 11 Written examination components completed during the course of study
- § 12 Assessment of examination components

Section II: Master's examination

- § 13 Master's examination admission requirements
- § 14 Admission procedure
- § 15 Scope and nature of the examination
- § 16 Final oral examination
- § 17 Research placement
- § 18 Master's thesis
- § 19 Submission and assessment of the Master's thesis
- § 20 Passing the examination and overall grade
- § 21 Retaking an examination component and deadlines
- § 22 Master's diploma and certificate

Section III: Final provisions

- § 23 Invalidity of examinations
- § 24 Access to examination documents
- § 25 Coming into force

Section I: General provisions

§1 Purpose of the academic programme and examination

- (1) Building on the knowledge acquired in a Bachelor of Science programme (e.g., in chemistry, physics, molecular biology, biochemistry, material sciences), Bachelor of Engineering programme (e.g., molecular systems engineering, bioengineering) or in a degree programme in an associated scientific or engineering discipline, students in this consecutive, research-oriented Master's programme gain in-depth expert knowledge of and the methodological skills in the area Matter to Life. In addition to the mandatory lectures and courses in the areas of physics and physical chemistry of life, quantitative analysis as well hierarchical compositions of molecular and nanoscopic units as the foundation of lifelike materials, students must also select the area of specialisation "Molecular Systems Chemistry and Engineering".
- (2) The purpose of the Master of Science examination is to assess whether students have an overview of the interconnections within their subject, have the ability to apply in-depth academic methods and knowledge, and are able to work independently according to sound, academic principles.
- (3) Admission to the academic programme is subject to separate admission regulations.

§ 2 Master's degree

Upon successful completion of the Master's examination, Heidelberg University will confer the academic degree, "Master of Science" (abbreviated to "M.Sc.").

§ 3 Standard period of study, programme structure and range of courses offered

- (1) The standard period of study for the Master's degree programme is four semesters, including time for the Master's examination and for completion of the Master's thesis.
- (2) Lectures and courses in the Master's degree programme are held in the first three semesters; the Master's thesis is to be completed during the fourth semester. Successful completion of the Master's degree programme requires a total of 120 credits (CP), obtained through both compulsory and elective courses.
- (3) The degree programme is a modular programme. Of the 120 credits, 60 are allocated to subject-specific courses and lectures (compulsory and compulsory electives) and to the final oral examination; 30 credits are allocated to research placements and 30 credits are awarded for completion of the Master's thesis.
- (4) Generally, the language of instruction and examination is English.

Please note that this document is a non-binding convenience translation. Only the German version of the document entitled "Prüfungsordnung der Universität Heidelberg für den Masterstudiengang Matter to Life" of 15 January 2019 has legal validity.

§ 4 Modules, credits and transcript of records

- (1) A module is a teaching unit, self-contained in terms of both time and content and comprised of various lectures and courses. Modules consist of not only lectures and courses, but also the examination prerequisites necessary for the successful completion of the module.
- (2) The Master's thesis and the final oral examination are considered individual modules.
- (3) A distinction is made between:
 - compulsory modules: must be completed by all students
 - compulsory elective modules: students may select these from a limited subject area
 - elective modules: to be freely chosen by the student from the modules offered within the subject.
- (4) All components within a module must be graded as "sufficient" (4.0) or better (sub-module grades) for the complete module to be passed.
- (5) Credits are given for successfully completed modules. One credit (CP) corresponds to a workload of 30 hours.
- (6) A transcript of records will be issued at the end of each semester, listing all module examinations students have passed, including the corresponding credits and grades.
- (7) A previously completed compulsory or compulsory elective module cannot be counted again as a elective module in the area of specialisation.

§ 5 Examinations board

- (1) The examinations board is responsible for the organisation of examinations and tasks prescribed in the examination rules and regulations. It consists of three professors who are actively involved in teaching in the Master's degree programme Matter to Live as well a student representative in an advisory role. The faculty council appoints the chairperson, the deputy, and the other members of the examinations board for a period of two years each. The student member is appointed for one year. Members may be re-elected. The chairperson and the deputy must be professors.
- (2) The examinations board ensures that the examination rules and regulations are upheld and provides recommendations for further improvement of the curriculum and the examination rules and regulations. It appoints the examiners and observers. The examinations board may confer responsibility for appointing examiners and observers on its chairperson. The board may

be called upon for all questions regarding examinations.

- (3) The chairperson manages the business of the examinations board, prepares and chairs meetings and, in the event of a tie vote, has the deciding vote.
- (4) The examinations board may confer further tasks on its chairperson, provided this does not violate applicable law. Such a decision may be revoked at any time. The examinations board must be informed on a regular basis about the execution of these tasks.
- (5) Members of the examinations board have the right to attend examinations.
- (6) Members of the examinations board, examiners and observers are obliged to maintain professional confidentiality. Members who are not civil servants are sworn to secrecy by the chairperson.
- (7) The candidate must be informed of negative decisions of the examinations board immediately and in writing; the reasons for the decision must be stipulated and information on the procedure for appeal must be provided.

§ 6 Examiners and observers

- (1) In general, examinations which are not completed during the course of study as part of individual courses or lectures, may only be set by professors and associate professors of the Faculty of Chemistry and Earth Sciences, teachers of the Max Planck School Matter to Life who received examination authorisation for the degree programme Matter to Life from the Faculty of Chemistry and Earth Sciences and academic employees with examination authorisation. Adjunct lecturers and lecturers with special responsibilities may only be appointed to conduct examinations in exceptional circumstances; if there are not enough qualified faculty members available to conduct examinations.
- (2) Examination components completed during the course of study are usually conducted by the teacher of the respective course.
- (3) Only persons who have completed the respective Master's examination or an examination equivalent to a Master's examination may be appointed as observers.
- (4) Official secrecy must be upheld by all examiners and observers.

§7 Recognition of course credits, examination results and academic degrees

- (1) Course credits and examination results as well as academic degrees that were obtained through a degree programme at another state or state-recognised higher education institution or college of cooperative education (Berufsakademie) in the Federal Republic of Germany, or through degree programmes at state or

state-recognised higher education institutions abroad, will be recognised as long as the skills acquired do not differ significantly from those required for the courses and examinations or the degrees that are replaced. This recognition is required in order to continue an academic programme, take examinations, enrol in a further academic programme or be admitted to a doctoral programme. The validity of § 15, paragraphs 3 and 4 LBG (State Public Service Law) remains unaffected.

- (2) Courses completed at recognised distance-learning institutions will be considered equivalent to those in a corresponding traditional degree programme with regard to determining the duration of study.
- (3) It is the applicant's responsibility to provide all information necessary for achievements to be recognised. It is the responsibility of the office which carries out the recognition procedure to prove that an application does not fulfil the requirements.
- (4) If agreements existing between the Federal Republic of Germany and other states concerning the equivalence of university degree programmes (Equivalency Agreements) diverge from paragraph 1 and § 29, paragraph 2, clause 5 of the LHG (State Law of Baden-Württemberg on Higher Education), and thereby favour students from other states, the rules and regulations in the Equivalency Agreement shall take precedence.
- (5) Examination components are to be graded on the basis of a credit system that allows for recognition of credits from equivalent or similar degree programmes studied at Heidelberg University, or at other universities. This also applies to credits gained at universities of cooperative education, provided that equivalence is established.
- (6) Knowledge and skills acquired outside of the higher education system are to be recognised for a degree programme at a higher education institution if:
 1. the requirements for university admission are fulfilled at the time of recognition,
 2. the knowledge and skills to be recognised for the university degree programme are equivalent in both content and level to the course credits and examinations which they are to replace, and
 3. the criteria for recognition have been verified through an accreditation procedure.

Knowledge and skills gained outside of the higher education system may not replace more than 50% of the university degree programme. If required documentation of individual examinations, which serves as proof of specific knowledge and skills, is not provided, the examinations board may request that a placement test be completed.

- (7) Credits may be awarded for study and examination components completed in the context of refresher courses (Kontaktstudien). When recognising credits from refresher courses for a university degree programme, paragraphs 2 and 5, as well as paragraph 6, clause 1, item 1, apply accordingly. When recognising knowledge and skills gained outside of the higher education system for refresher

courses, paragraph 6 applies accordingly.

§ 8 Unexcused absence, withdrawal, exceeding of deadlines and deception

- (1) An examination is graded as "failed" (5.0) if the candidate fails to attend the examination and is unable to provide a valid reason for his or her absence, or if the candidate withdraws after the examination has started. The same applies if a written examination is not completed within the specified time limit, unless the candidate is not responsible for exceeding the time limit.
- (2) Reasons for withdrawal or absence in accordance with paragraph 1 must be plausible and must be immediately submitted to the examinations board in writing. If the candidate, or a child for whom the candidate is generally the sole caregiver, is ill, a medical certificate must be provided. In the event of doubt, a medical certificate from a designated physician may be required. If the reasons are accepted, a new examination date will be scheduled. In this case, examination results that are already available will be taken into account.
- (3) When deciding whether the candidate is responsible for exceeding a deadline for registering for, or taking, an examination, the examinations board must respect the provisions stated in the Maternity Protection Act (Mutterschutzgesetz) and the legal provisions concerning parental leave, and allow candidates to make appropriate use of these provisions. The same applies for students with disabilities or chronic illnesses, or for students with dependent relatives, in accordance with § 7 paragraph 3 of the Home Care Leave Act (Pflegezeitgesetz).
- (4) If the candidate tries to influence the examination results through deception or by using unauthorised aids, the examination will be graded as "failed" (5.0). If a candidate disrupts the proper course of the examination, he or she may be excluded by the examiner or examination supervisor from taking further part in the examination, in which case the examination will be graded as "failed" (5.0). In extreme cases, the examinations board may exclude the candidate from all further examinations.
- (5) The candidate may request that the decision made in line with paragraph 4, clauses 1 and 2, be validated by the examinations board within a period of 7 days. The candidate must be informed of negative decisions immediately and in writing; the reasons for the decision must be stipulated and information on the procedure for appeal must be provided.

§ 9 Types of examination component completed during the course of study

- (1) Examination components completed during the course of study are:
 1. oral examinations
 2. written examinations (electronically, where applicable). If candidates provide a medical certificate that plausibly proves that they are not able to take examinations in the form prescribed, whether completely or partially, due to

permanent or chronic health problems, the examinations board may allow them to take an equivalent examination. The same applies to other course requirements.

§ 10 Oral examinations completed during the course of study

- (1) The purpose of oral examination components is to assess whether candidates are able to identify interconnections within the examination matter and relate specific problems to these interconnections. Additionally, the purpose of the oral examination is to assess whether the candidate has a broad knowledge of the fundamental principles of his or her field of study.
- (2) An oral examination lasts between 15 and 60 minutes.
- (3) If an oral examination is completed in the form of a presentation, candidates must assure that they are the authors of their work and have used no sources or aids other than those indicated.

§ 11 Written examinations completed during the course of study

- (1) In written examination components, candidates should demonstrate that they are able to recognise problems relating to their subject and find solutions for them using subject-specific methods within a limited period of time and using limited resources.
- (2) A written examination lasts between 30 and 180 minutes. Multiple choice questions are permitted.

Multiple choice questions are generally set by the lecturer responsible for a lecture or course, as determined by the examinations board. The examination questions must correspond to the knowledge imparted in the lecture or course, and must provide reliable examination results. Before assessing the examination results, the responsible persons specified under clause 1 must ensure that the questions for the examination correspond with clause 2. If the examiner finds that individual examination questions are incorrect, these questions must not be considered when assessing the examination results. In such cases, the total number of questions is reduced accordingly, and assessment of the examination must be based on this reduced number. Reducing the number of questions must not have negative consequences for the candidates.

An examination carried out as a multiple choice examination is considered to be passed when at least 50% of the questions have been answered correctly, or when the number of questions answered correctly by the candidate is not lower than 22% of the average examination results of all candidates (norm-referenced grading). However, the minimum required passing grade may not fall below 40%. If a candidate has correctly answered the number of questions required to pass the examination, then the multiple choice examination must be assessed as follows. For non-referenced grading, the scale for

assessment is moved linearly by the difference between the absolute and relative threshold for passing.

% corresponds to grade

≥50–55	4.0
>55–60	3.7
>60–65	3.3
>65–70	3.0
>70–75	2.7
>75–80	2.3
>80–85	2.0
>85–90	1.7
>90–95	1.3
>95–100	1.0

- (3) If a written examination component is taken as a term paper, candidates must assure that they are the authors of their own work and have used no sources or aids other than those indicated.
- (4) The evaluation period for written examinations should not exceed four weeks.

§ 12 Assessment of examination components

- (1) Grades for the individual examinations are determined by the respective examiners. The following grades must be used for assessment of examinations:

1 = very good	= an outstanding performance;
2 = good	= a performance which lies substantially above average requirements;
3 = satisfactory	= a performance which fulfils average requirements;
4 = sufficient	= a performance which, despite deficiencies, still meets the requirements;
5 = failed	= a performance which does not meet the requirements due to considerable deficiencies.

- (2) For a more detailed assessment of examination results, grades may be further differentiated by increasing or decreasing the individual grades by 0.3; however, the grade 0.7 and incremental grades above 4.0 may not be used.
- (3) Grading for the final module grade, the subject grade, and overall Bachelor's examination grade is as follows:

average of up to and including 1.5	very good
for an average of between 1.6 and up to/including 2.5	good
for an average of between 2.6 and up to/including 3.5	satisfactory
for an average of between 3.6 and up to/including 4.0	sufficient

- (4) When calculating final module grades and the overall examination grade, only the first decimal after the point is taken into account, without rounding. The overall grade for the Master's examination is calculated in accordance with § 19, paragraph 2.
- (5) In addition to the grade awarded in accordance with the German system, students who have passed the corresponding Master's examination will, upon application, receive a relative grade (ECTS grade) pursuant to the current ECTS User's Guide.

Section II: Master's examination

§ 13 Master's examination admission requirements

- (1) Admission to the Master's examination will only be authorised for those who:
1. are enrolled in the Master's degree programme Matter to Life at Heidelberg University,
 2. have not lost their entitlement to take the final examinations in the Master's degree programme Matter to Life.
- (2) Admission to the final oral examination requires the submission of additional certificates stating the successful completion of the compulsory courses listed in Appendix 1 (excluding MtL-LR, MtL-MP, MtL-MA) worth a total of 22 CP as well as compulsory elective courses worth a total of 20 CP.
- (3) Please also consult § 15 for further information on scope, nature and sequence of the Master's examination. Admission to the research placement requires the submission of the certificate stating the successful completion of the final oral examination; admission to the Master's thesis requires the submission of the certificate stating the successful completion of the research placement.

§ 14 Admission procedure

- (1) The application for admission to the examination must be made in writing, addressed to the chairperson of the examinations board. The following must be enclosed with the application:
1. proof of fulfilment of the admission requirements stated in § 13,
 - (2) a declaration from the candidate, stating whether they have previously failed a Master's examination in a Master's degree programme Matter to Life, or whether they are currently involved in

an examination procedure in such a degree programme.

- (3) If the candidate is unable to provide such evidence, the examinations board may accept other documents as proof.
- (4) The examinations board decides whether to admit the candidate on the basis of the application. Rejections must be substantiated and notified in writing along with instructions for appeal.
- (5) The application for admission to the examination may only be rejected if:
 - 1. the requirements outlined in § 13 are not fulfilled, or
 - 2. the documents set forth in paragraph 1 are incomplete, and have not been completed upon request, or
 - 3. the candidate has failed their final attempt at the Master's examination Matter to Life, or has lost their entitlement to take the final examinations, or
 - 4. the candidate is currently involved in an examination procedure in such a degree programme.

§ 15 Scope and nature of the Master's examination

- (1) The Master's examination consists of:
 - 1. Successful completion of the courses and lectures listed in Appendix 1,
 - 2. the final oral examination,
 - 3. the successfully completed research placement,
 - 4. the Master's thesis.
- (2) The examinations referred to in paragraph 1, number 1 are taken as an integrated part of the respective lectures or courses. They may be in written or oral form. The lecturer responsible for a lecture or course determines the nature and duration of the integrated examinations and provides this information no later than the beginning of the lecture or course.
- (3) The Master's examination has to be taken in the following order:
 - examination components completed during the course of study (paragraph 1 no. 1)
 - final oral examination (paragraph 1, number 2)
 - research placement (paragraph 1, number 3)
 - Master's thesis (paragraph 1, item 4).
- (4) § 9, paragraph 2 applies accordingly.

§ 16 Final oral examination

- (1) In the final oral examination, candidates should prove that they recognise interconnections within the subject matter examined and that they are able

to relate specialist problems to these interconnections. In addition, the candidate should demonstrate broad fundamental knowledge, as well as specialist knowledge, in the specific subject area examined. The final oral examination is set by a panel of examiners (three examiners) who are all actively involved in teaching in the degree programme. The candidate may suggest an examiner, however, this does not constitute legal entitlement to be examined by a particular examiner. The chair of the examinations board ensures that candidates are notified of examiners' names in due time.

- (2) In accordance with § 15, paragraph 1, item 1, candidates must take the final oral examination no later than six weeks after the completion of the last final examination component.
- (3) The final oral examination lasts for approximately 60 minutes.
- (4) The examination will be conducted in English.
- (5) Important content and the results of the oral examination are to be recorded in the minutes. Candidates must be notified of examination results immediately following the oral examination.
- (6) Students seeking to take the same examination at a later date may be allowed to observe the examination, provided that there is enough space available. The student observers may not be present for the assessment or announcement of the examination results. Upon the candidate's request, or for other valid reasons, observers may be prohibited from attending the examination.

§ 17 Research placement

- (1) The aim of the research placement is to consolidate and increase the knowledge and experimental skills acquired in the degree programme. Students must formulate a complex scientific question, create a research plan and finally summarise it. In particular, students will learn how to use complex modern instruments, their knowledge of demanding experimental work will be increased and they will gain an in-depth and sustainable understanding of the associated theoretical foundations of the subject.
- (2) Two authorised examiners can jointly set and supervise the research placement in accordance with §6, para. 1, sentence 1 of the subject Matter to Life.
- (3) The topic of the research placement can only be assigned once the final examination has been successfully completed. The candidate must start the research placement no later than four weeks after completion of the final examination. If the deadline is not met, the research placement will be graded as "failed" (5.0), unless the candidate is not at fault for exceeding the deadline.
- (4) The topic of the research placement will be defined by the two supervisors.

If an application for assignment of a topic is submitted, the chair of the examinations board will ensure that the candidate receives a topic for their research placement in due time. The candidate is permitted to propose topics; however, this does not constitute legal entitlement to a particular topic. The topic is assigned by the chair of the examinations board. The date of assignment must be recorded.

- (5) The deadline for submission of the thesis is six months after the date on which the topic was assigned. In exceptional cases, the examinations board, in consultation with the supervisor, may extend this deadline by up to two months. If the deadline is not met, the Master's thesis will be graded as "failed" (5.0), unless the candidate is not responsible for exceeding the deadline.
- (6) The topic, task and scope of the research placement must be limited in such a way that the candidate is able to complete the thesis within the given time frame. The topic may only be rejected once, and only within the first two months following assignment of the topic.
- (7) The research placement report and presentation on results and findings must be written in English.

§ 18 Master's thesis

- (1) The Master's thesis serves to demonstrate that the examinee is able to independently work on a problem in a fundamental area of the degree programme Matter to Life in a given time limit and by using academic methods.
- (2) In accordance with § 6, paragraph 1, clause 1, the Master's thesis may be assigned and supervised by any authorised examiner in the field of Matter to Life.
- (3) The topic of the Master's thesis can only be assigned once the research placement has been successfully completed. The candidate must begin work on the Master's thesis no later than four weeks after the successful completion of the research placement, or, must have by that time submitted an application to the chairperson of the examinations board for the assignment of a topic. If the deadline is not met, the Master's thesis will be graded as "failed" (5.0), unless the candidate is not at fault for exceeding the deadline.
- (4) The topic of the Master's thesis will be determined by the supervisor. If an application for assignment of a topic is submitted, the chair of the examinations board will ensure that the candidate receives a topic for their Master's thesis in due time. The candidate is permitted to propose topics; however, this does not constitute legal entitlement to a particular topic. The topic is assigned by the chair of the examinations board. The date of assignment must be recorded.
- (5) The deadline for submission of the thesis is six months after the date on

which the topic was assigned. In exceptional cases, the examinations board, in consultation with the supervisor, may extend this deadline by up to two months. If the deadline is not met, the Master's thesis will be graded as "failed" (5.0), unless the candidate is not responsible for exceeding the deadline.

(6) The topic, task and scope of the Master's thesis must be limited in such a way that the candidate is able to complete the thesis within the given time frame. The topic may only be rejected once, and only within the first two months following assignment of the topic.

(7) The Master's thesis must be written in English.

§ 19 Submission and assessment of the Master's thesis

(1) Three copies of the Master's thesis must be submitted to the examinations board before the established deadline; the submission date must be recorded. The thesis must contain a summary.

(2) When submitting a Master's thesis, candidates must certify in writing that they are the authors of their work and have used no sources or aids other than those indicated.

(3) The Master's thesis is assessed by two examiners, one of whom must be a professor. The first examiner will be the thesis supervisor. The second examiner is designated by the examinations board. The candidate is permitted to make a proposal. This does not, however, constitute legal entitlement to be examined by a particular examiner. The assessment period should not exceed a period of four weeks.

(4) The grade is calculated as the average of the two assessments; § 12 applies accordingly. If the two assessments differ by more than one grade, the examinations board will determine the grade for the Master's thesis after consulting both examiners. In such cases, a third examiner may be consulted.

§ 20 Passing the Master's examination, overall grade

(1) The Master's examination is passed if all examination components as set forth in § 15, paragraph 1 have been graded as "sufficient" (4.0) or better.

(2) The calculation of the overall grade in accordance with § 12, paragraph 2, the numerical values of the module grades in accordance with § 12, paragraph 3 are taken into account and weighted according to the credit points achieved.

§ 21 Retaking an examination component, deadlines

(1) Failed examinations, or examinations deemed failed may be retaken once. Any unsuccessful examination attempts at other universities are to be

counted towards this retake limit. A second retake is only permitted in exceptional circumstances and only for a maximum of two examination components completed during the course of study. A second retake must be approved by the examinations board. A second retake is not permitted for the Master's thesis or for the final oral examination. Retaking an examination that has been graded as passed is not permitted.

- (2) Failed examinations must be retaken no later than during the following semester. If the candidate fails to meet this deadline, they will lose their entitlement to take the examination, unless they are not responsible for exceeding the deadline.
- (3) If a compulsory module examination is failed on the final attempt, the candidate will be excluded from the academic programme. Failure of compulsory elective modules and elective modules may be offset by the successful completion of a different module.

§ 22 Master's diploma and certificate

- (1) Once the Master's examination is passed, an English-language diploma - a German-language diploma may also be requested - will be issued within four weeks. This will list all individual modules with their respective grades (graded in accordance with § 12, paragraphs 2 and 4, and numerical value) and credits, as well as the grade and topic of the Master's thesis, and the overall grade of the Master's examinations. The diploma will be dated with the date of the last examination component. It must be signed by the dean and chair of the examinations board.
- (2) A "Diploma Supplement" in English will also be issued, containing additional information about the course content and the course of study. The content complies with the European Diploma Supplement Model.
- (3) A Master's certificate in English is issued with the diploma, bearing the same date. On request, the Master's certificate will also be issued in German. It certifies the conferment of the academic degree, "Master of Science". The Master's certificate is signed by the dean and the chair of the examinations board. It bears the faculty seal.
- (4) Graduates will also receive a certificate of the "Max Planck School Matter to Life". It certifies the completion of additional research activities at the Max Planck School and is signed by the speaker of the Max Planck School Matter to Life.
- (5) If the Master's examination is failed on the final attempt or is considered not to have been passed, the chairperson will issue a written notification, providing information on the procedure for appeal. Upon request and on presentation of supporting documents and the certificate of exmatriculation, a certificate will be issued that lists any completed examination components and their respective grades as well as the examination components still required to pass the Master's examination. It also indicates that the Master's

examination has been failed.

Section III: Final provisions

§ 23 Invalidity of examinations

- (1) If a candidate has cheated on an examination and this is not discovered until after the diploma has been issued, the examinations board may correct the examination results for the affected examination components accordingly and may declare the examination to be partially or completely failed.
- (2) If the requirements for admission to the examination were not fulfilled, but without any intent on the candidate's part to deceive, and this is not discovered until after the diploma has been issued, the passed examination will be considered compensation for this shortcoming. If the candidate intentionally gained admission to the examination through deceit, the examinations board will make a decision on the matter.
- (3) The candidate will be given the opportunity to provide an explanation before the decision is made.
- (4) The incorrect examination certificate will be confiscated, and, where applicable, a new certificate must be issued. If the examination has been graded as "failed" due to cheating or deceit, the Master's certificate will be confiscated along with the incorrect examination certificate. In accordance with paragraph 1 and paragraph 2, clause 2, a decision may not be made more than five years after the date indicated on the examination certificate.

§ 24 Access to examination documents

- (1) Once the examination procedure has been concluded, the candidate has the right to request access to examination documents within a reasonable period of time. Requests must be submitted in writing. The request must be submitted within one year of completion of the examination procedure. The chair of the examinations board will decide when and where such access will be given.

§ 25 Coming into force

These examination rules and regulations come into force on 15 January 2019.

Heidelberg, 15 June 2019

signed Prof. Dr. Bernhard Eitel

Rector

Appendix 1: Modules, lectures and courses in the Master's degree programme Compulsory modules (100 CP)

Module name	Description	Course	WCH	Recom. sem.	CP
Basic physical chemistry of life	MtL_PCL	Lecture with computer course	6	1	8
Quantitative analysis of life	MtL_QAL	Lecture with lab course	6	1	7
Physics of complex systems and biophysics of	MtL_CPL	Lecture	4	1	5
Ethics in synthetic biology	MtL_ESB	Lecture	2	1	2
Final oral examination	MtL_MP	Master's examination	-	2	18
Lab rotation	MtL_LR	Research placement	-	3	30
Master's thesis	MtL_MA	Master's thesis	-	4	30

Compulsory elective modules (20 CP)

At Heidelberg University, we offer compulsory elective modules in the area of Molecular Systems Chemistry and Engineering. These include the following lectures and courses:

Module name	Course name	Description	Course	WCH	Recom. sem.	CP
Molecular Systems Chemistry (MtL_MSC)	Macro-molecular structures and functions	MtL_MSC_1	Lecture with lab course	4	2	5
	Chemical biology	MtL_MSC_2	Lecture with lab course	2	2	4
	Bioconjugation & Imaging Chemistry	MtL_MSC_3	Lecture	2	2	3
Molecular Systems Engineering (MtL_MSE)	Genome engineering	MtL_MSE_1	Lecture with lab course	2	2	4
	Synthetic Cells & Virology	MtL_MSE_2	Lecture with lab course	2	2	4