

Official Notices

Date December 17, 2015

No. 123/2015

Content:

**Examination
Regulations for
the degree
program in
Chemistry
with the degree of
Master of Science
of the
University of Siegen**

and

**Regulations
on the Determination of
Qualification for the master's
degree program
"Chemistry (M.Sc.)"
at the University of Siegen**

Dating from December 15, 2015

The translations provide a service to international students, researchers and staff.
The legally binding versions of the notifications are available in German only.

**Examination Regulations
for the
degree program in
Chemistry
with the degree of
Master of Science
of the
University of Siegen**

Dating from
December 15, 2015

Based on section 2 (4) and section 64 (1) of the Act on the Higher Education Institutions of the Land of North Rhine-Westphalia (Higher Education Act HEA) of September 16, 2014 (GV. NRW. p. 547), the University of Siegen has adopted the following Examination Regulations:

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I. General

Section 1

Area of application

These Examination Regulations apply to all students who enroll in the master's degree program in Chemistry at the University of Siegen time starting from the winter semester of 2015/2016.

Section 2

Objectives of the degree program

The master's degree program is designed to provide students with a qualifying degree for the profession of chemical scientist and prepare them for independent work in the context of a doctorate. The objective of this degree program is to train leaders for industry, business and public bodies as well as the academic junior researchers.

Section 3

Master's degree

Upon successful completion of the degree program, the University will award the academic degree of "Master of Science" (M.Sc.).

Section 4

Admission requirements

- (1) Admission to the master's degree program is subject to the successful graduation from a bachelor's program in chemistry at a university within the area of application of the German Basic Law or a first degree with a comparable professional qualification.
- (2) Admission to the master's degree program requires proof of a particular educational background with regard to the degree program. Details can be found in the Regulation on Determination of Qualification for the master's degree program "Chemistry (M.Sc.)" at the University of Siegen (Annex).
- (3) Admission to the master's degree program requires the documentation of proficiency in English at B2 level according to the Common European Framework of Reference for Languages. This is usually documented by the Abitur certificate. Otherwise it is documented by submitting the relevant language certificates.
- (4) Enrollment is excluded if the prospective student has failed a compulsory examination according to the examination regulations in a degree program of essentially similar content and no longer has the right to retake the exam.

Section 5

Standard period of study and scope of degree program

- (1) The standard period of study for the master's degree program is 4 semesters.
- (2) For successful completion of the degree program, 120 credit points (CP) must be obtained in the modules listed in the Examination Regulations, of which 30 CP are awarded for the master's thesis.
- (3) The contents of the degree program and the qualification objectives of the individual modules are specified in the module descriptions documented in the module handbook. A degree plan can be found in Annex 1 to the Examination Regulations.
- (4) In consideration of the degree plan, the contents of the degree program shall be chosen and limited in such a way that the degree program can be completed in the standard period of study.

Section 6

Modularization and structure of degree program

- (1) The degree program has a modular structure and features a credit point system. Modules are study units that are thematically and temporally well-rounded and self-contained; they generally consist of several module elements, with different forms of teaching and learning as appropriate.
- (2) Credit points (CP) are awarded upon successful completion of a module. The amount of credit points is stated in paragraph 4.
- (3) Admission to a course or a module can depend on certain requirements, in particular on the successful completion of another course, another module or several other modules. The requirements are stated in paragraph 4.
- (4) Modules overview:

Module No.	Module title	CWR ¹	ER ²	Recomm. semester	HWS	CP	Requirements
7.1	Inorganic Chemistry		1	1	4	6	-
7.2	Organic Chemistry		1	1	4	6	-
7.3	Physical Chemistry		1	1	4	6	-
7.4	Applied Chemistry I		1	1	7	6	-
7.5	Applied Chemistry II		1	1	7	6	-
8.1	Compulsory Elective Subject I		1	2	4	6	see module handbook
8.2	Compulsory Elective Subject II		1	2	4	6	see module handbook
8.3	Compulsory Elective Subject III		1	2	4	6	see module handbook
8.4	Internships Compulsory Elective Subject I/II		1	2	10	6	see module handbook
8.5	Foreign Language			2	2	3	-
8.6	Academic Writing		1	2	2	3	-
9.1	Compulsory Elective Subject I		1	3	4	6	see module handbook
9.2	Compulsory Elective Subject II		1	3	4	6	see module handbook
9.3	Compulsory Elective Subject III		1	3	4	6	see module handbook
9.4	Research Internship I	1	1	3	9	6	see module handbook
9.5	Research Internship II	1	1	3	9	6	see module handbook
10.1	Master's Thesis (6 months)			4		30	Passed modules from the preceding semesters

¹ Course work requirement ² Examination requirement

Section 7

Examinations and examination deadlines

- (1) The study-related examinations for the modules are held in written, practical or oral form.
- (2) The scope of the credited examinations will be announced by the responsible teaching staff at the start of the respective course. The form of the credited examination performances must

correspond to the information in the latest module description. If the module description allows for several possible forms of examination, the teaching staff will announce the specific form of examination to be passed at the start of the course.

- (3) Three examination dates shall be set for the acquisition of credited examination performances for each module every year. The examination periods are the first two weeks after the end of lectures and the last two weeks of the semester. Date and time of the examination will be announced by the examination office.
- (4) Taking examinations requires a registration. The registration period for examinations starts three weeks before the start of the examination period and ends seven days before the start of the examination period. An examination registered for is considered taken unless the candidate deregisters from the examination no later than seven days before the examination date.
- (5) The successful performance of the examinations will be determined by the authorized examiner. The examination office will be notified of the examination results by the authorized examiner no later than four weeks after the examination date.
- (6) Registration for the first attempt at an examination must take place no later than three semesters after the semester in which the student has taken the course to which the examination is assigned according to the degree plan. A student will lose the right to take an examination if he/she does not register for the examination within the predefined period unless the student can prove that he/she is not responsible for failing to meet the deadline.
- (7) The master's thesis is assigned by the chairperson of the Examining Board. Date and time of the assignment shall be recorded at the examination office. The completion period for the master's thesis is six months. The topic and the task must be designed in such a way that the master's thesis can be completed by the specified deadline. The topic can be rejected only once and only within the first two months.

Section 8

Free attempt

- (1) After uninterrupted participation in the degree program, a failed written or oral examination for a module shall be considered not taken (free attempt) if the module was completed before or during the semester to which it is assigned according to the degree plan for the master's degree program and the examination was held no later than two weeks after completion of the module. A second free attempt in the same subject examination is not possible. Sentence 1 does not apply if the examination was declared failed due to conduct in violation of the Regulations, in particular attempted fraud.
- (2) The calculation of the time stated in paragraph 1, sentence 1 does not take into account those semesters of the degree program in which the candidate was demonstrably prevented from studying due to a longer severe illness or for another compelling reason. Such a reason shall be assumed in particular if at least four weeks of maternity protection fall within the lecture period. In the case of illness, it is necessary that the candidate is medically examined without delay and submits the medical certificate together with the registration.
- (3) A period of study abroad of up to two semesters likewise shall not be taken into account if the candidate was demonstrably enrolled at a university abroad in the subject of study for which he/she intends to benefit from the free attempt regulation and has successfully completed a reasonable amount of modules, generally modules with a total of at least 10 credit points.
- (4) In addition, a reasonable amount of semesters of the degree program up to a maximum of three semesters shall not be taken into account if the student was demonstrably active as a member of committees at the university that are established either by law or by the general regulations.
- (5) Delays in completing the degree program up to a maximum of two semesters due to disability shall not be taken into account.

- (6) Students who have passed a written or oral examination for which one of the requirements according to paragraphs 1 to 5 was met can repeat an examination once to improve their grade (cf. Section 19 (7)). The application for admission shall be submitted for the next examination date.
- (7) If a candidate obtains a better grade in the retake examination, the better grade will be shown on the certificate and taken as the basis for calculation of the overall grade for the master's degree program.

Section 9

Examining board

- (1) For the organization of examinations and the tasks assigned by these Examination Regulations, the Faculty Council of Faculty IV: Faculty of Natural Science and Technology will establish an Examining Board for the subject (hereinafter: "Examining Board"). The Examining Board consists of the chairperson, a deputy and five other members. The chairperson, the deputy and two other members will be chosen from the group of professors. One member will be chosen from the group of academic employees and two members will be chosen from the group of students. The members of the Examining Board are elected by the representatives of the respective groups in the Faculty Council. Accordingly, deputies will be elected for the members of the Examining Board, with the exception of the chairperson and the deputy. The term of office of the members from the group of professors as well as from the group of academic employees is three years; the term of office of the student members is one year. Reelection is permitted.
- (2) The Examining Board ensures that the provisions of the Examination Regulations are complied with and enforces the proper organization of examinations. In particular, it is responsible for decisions on objections against decisions made in the context of examination procedures. In addition, the Examining Board shall report to the Faculty on developments concerning examinations and study times regularly, but at least once a year. The Examining Board makes suggestions regarding the reform of the Examination Regulations and the degree plan. The Examining Board can delegate the fulfillment of its tasks to the chairperson; this does not apply to decisions on objections and the report to the Faculty Council.
- (3) The Examining Board has a quorum if, in addition to the chairperson or the deputy and two professors, at least two additional members with voting rights are present. Decisions require a simple majority. In case of a tie, the vote of the chairperson shall be decisive. The student members of the Examining Board do not contribute to the transfer of completed course work and passed examinations.
- (4) The members of the Examining Board have the right to sit in on examinations.
- (5) The meetings of the Examining Board are not public. The members of the Examining Board and their deputies are required to maintain confidentiality with regard to their official duties. In case they are not public servants, they shall be bound to confidentiality by the chairperson of the Examining Board.
- (6) The Examining Board is a public authority within the meaning of administrative procedural law.

Section 10

Authorized examiners and observers

- (1) Authorized examiners are all persons teaching at the university within the meaning of Section 65 (1) HEA, provided that they
 1. regularly teach relevant courses in the subject to which the examination is related, and
 2. have been appointed as examiners by the Examining Board.

The appointment as an examiner shall be limited to a specific term and to specific modules. The Examining Board can delegate the appointment of the examiners to the chairperson.

- (2) The dean's office can allow, in consultation with the Examining Board, that also such persons teaching at the university within the meaning of Section 65 (1) HEA are appointed as examiners who do not regularly teach relevant courses in the subject to which the examination is related.
- (3) In courses not offered by the Department of Chemistry – Biology, the staff teaching the respective courses are authorized to act as examiners and have been appointed as such.
- (4) Deviating from paragraph 1, professors and habilitation candidates who have been assigned teaching tasks to be fulfilled independently by the Faculty Council (Section 44 (2) HEA) are authorized examiners without limitation and have been appointed as such without a decision of the Examining Board. The Examining Board appoints the examiners for each examination, who generally are the staff teaching the respective course.
- (5) Authorized examiners for the master's thesis are all persons who are authorized examiners within the meaning of paragraphs 1 to 4. Upon request, the Examining Board can appoint qualified external scientist as authorized examiners. The candidate can propose the examiners for the master's thesis. The proposals are not grounds for any claim, however. The examiners for the master's thesis are appointed by the chairperson of the Examining Board.
- (6) Persons who have at least passed the corresponding examination or a diploma or master's examination are appointed as observers without a decision of the Examining Board. For each examination for which an observer is required, the examination office will appoint a person as an observer.
- (7) The examiners are independent with regard to their examination activity.
- (8) The Examining Board shall ensure that the examination obligations are distributed as evenly as possible among the examiners.
- (9) The examiners and observers are required to maintain confidentiality with regard to their official duties. In case they are not public servants, they shall be bound to confidentiality.

Section 11

Recognition of passed examinations and obtained degrees

- (1) Examinations passed in degree programs at other public or publicly approved universities, at public or publicly approved universities of cooperative education or in degree programs at public or publicly approved universities abroad will be recognized upon request if they essentially correspond to the examinations they are substituted for with regard to the acquired competences.
- (2) The person submitting the application has to provide the necessary information about the performed examination to be recognized. The Examining Board has to prove that an application within the meaning of paragraph 1 does not fulfill the requirements of paragraph 1. If essential differences according to the Lisbon Convention are found and proven, reasons for the decision not to recognize must be given in writing.
- (3) Decisions on applications within the meaning of paragraph 1 are made within a period of two months.
- (4) On the basis of the recognition according to paragraph 1 and if the student applies for it, the student is admitted to a semester of the degree program the number of which results from the amount of ECTS credit points acquired by the recognition in relation to the total amount of ECTS credit points available in the respective degree program. If the first decimal place is less than five, it is rounded down to a whole number of semesters, otherwise it is rounded up.

- (5) To the extent that arrangements and agreements of the Federal Republic of Germany with other countries on equivalency in higher education (equivalency agreements) provide favorable terms for foreign students deviating from paragraph 1, the provisions of the equivalency agreements shall apply.
- (6) Upon request, other proficiencies and qualifications can be recognized on the basis of submitted documents if these proficiencies and qualifications are equivalent with regard to content and level to the examinations they are intended to be substituted for.
- (7) If performed examinations are recognized, the grades – to the extent that the grading systems are comparable – shall be transferred and included in the calculation of the overall grade.
- (8) The Examining Board is responsible for transfers according to paragraphs 1 to 7. Before findings with regard to equivalency are made, the competent representatives of the subject shall be heard.
- (9) Section 63 (5) HEA shall remain unaffected.
- (10) Prospective students who are entitled to start the degree program in a higher semester due to a placement examination according to Section 49 (11) HEA will have to perform less examinations for the master's examination according to the result of the placement examination. The findings in the certificate of the placement examination are binding for the Examining Board.

Section 12

Withdrawal, failure to attend, fraud, breach of regulations

- (1) The candidate can deregister from examinations at the examination up to seven days before the respective examination date.
- (2) An examination is considered assessed as “not sufficient” (5.0) if the candidate fails to attend an examination he/she has registered for without good reason or withdraws from the examination without good reason after it has started.
- (3) In case of failure to deregister, the Examining Board must be notified of the reasons for the withdrawal or failure to attend and the reasons must be substantiated without delay. In case of an illness of the candidate, a medical certificate documenting the inability to take examinations shall be submitted. If the chairperson of the Examining Board accepts the certificate, the candidate as well as the examiner will be notified in writing accordingly.
- (4) To the extent that the compliance with deadlines for the first-time registration for an examination, retaking examinations, reasons for the failure to attend examinations and the compliance with completion periods for examination papers are concerned, the illness of a child to be cared for primarily by the candidate alone shall be equivalent to the candidate's own illness.
- (5) If the candidate attempts to influence the outcome of his/her examination by means of fraud or the use of aids that are not permitted, the respective examination shall be assessed as “not sufficient” (5.0). A candidate who disturbs the proper conduct of an examination can be excluded from continuing the examination by the examiner or the supervising person after having been given due warning; in such a case, the respective examination shall be assessed as “not sufficient” (5.0). The reasons for exclusion shall be recorded. If the candidate is excluded from continuing the examination, he/she can request that this decision be reviewed by the Examining Board. This shall apply accordingly in case of findings by an examiner or a supervising person according to sentence 1.
- (6) The candidate can request, within 14 days, that decisions according to paragraph 3 be reviewed by the Examining Board. The candidate shall be notified of incriminating decisions without delay and reasons shall be given for such decisions. Prior to the decision, the candidate shall be given the right to be heard.

Section 13

Family regulation, protective provisions, times of absence

- (1) Upon request of a female candidate, the maternity protection terms as specified by the German Maternity Protection Act (MuSchG) as amended shall be taken into account accordingly. The maternity protection terms suspend any term specified by these Examination Regulations. The duration of maternity protection is not included in the calculation of the terms.
- (2) Likewise the terms of parental leave in accordance with the German Parental Allowance and Parental Leave Act (BEEG) shall be taken into account upon request. 4 weeks prior to the date on which the candidate intends to take parental leave at the latest, the candidate must notify the Examining Board of the period(s) in which he/she wants to take parental leave.
- (3) In addition, times of absence due to the care for or support of spouses, civil partners, direct-line relatives or persons related in the first degree by marriage shall be taken into account upon request if the aforementioned persons are in need of care or support. The application shall be submitted without delay once the conditions arise.
- (4) The documents required for review shall be enclosed with the applications.

Section 14

Compensation for disabled and chronically ill students

If a candidate can substantiate that he/she is unable, due to a chronic illness or disability within the meaning of Section 2 (1) SGB IX, to complete course work or perform examinations, in part or in total, in the intended form within the specified deadlines, the Examining Board will allow the time for completion of examinations or of the deadlines for the performance of examinations to be extended or equivalent examinations to be taken as the situation requires.

II. Master's examinations

Section 15

Form and scope of master's examinations

- (1) Modules are completed by completing course work or passing an examination. Examinations upon completion of a module can take the form of course work or passing an individual examination. In modules consisting of several module elements, examinations can take the form of combined examinations consisting of several forms of examination of different or equal weighting.
- (2) Lecture examinations generally take the form of written examinations (duration: 1 - 2 hours) or oral examinations (duration: 15 - 45 minutes). Internship examinations generally take the form of laboratory notes, reports and/or subject-related discussions. Alternatively, examinations can also take the following forms:
 - a) Oral examination,
 - b) Written examination, including division into multiple separate written examinations,
 - c) Presentation,
 - d) Written seminar paper,
 - e) Internship,
 - f) Exercise or seminar,
 - g) Master's thesis,
 - h) A combination of the forms of examination listed under a) to f).Oral examinations shall be held in the presence of an observer.

- (3) If, in combined examinations consisting of a written or oral examination and another form of examination, the required number of points to pass the module examination, the written or oral examination can be retaken no more than twice. The weighting of the examination elements remains unchanged. The points acquired over the course of the internship or exercise are maintained until it is found whether the module examination has been passed or failed. If, following the second retake, the required number of points to pass the module examination still has not been obtained, the module examination is assessed as failed.
- (4) The examinations to be performed in the individual modules are stated in the respective module descriptions. Percentages in the field "Examination" or "Course work" of an individual module description indicate the weighting of the examination element in the context of the combined examination.
- (5) The scope of the examinations must be explicitly announced to the students at the start of the course, i.e. in the first week of lectures, by the person responsible for the module.
- (6) Examination performances in written or oral examinations which serve to complete a degree program and in retake examinations without any compensatory option in case of failure without the right to another retake shall be assessed by at least two examiners within the meaning of Section 10. In addition, oral examinations shall always be held by several examiners or by an examiner in the presence of an observer who is proficient in the field.

Section 16

Scope and type of master's thesis

- (1) With regard to content, the master's thesis shall be written in a specialist field of chemistry that is supervised by an authorized examiner within the meaning of Section 10.
- (2) The master's thesis can be assigned and supervised by any person who is an authorized examiner within the meaning of Section 10 (5) and is active in research and teaching in this field. The approval of the chairperson of the Examining Board is required if the master's thesis is to be completed at an establishment outside of the university. The candidate shall be given the opportunity to make suggestions for the topic of the master's thesis.
- (3) Upon request, the chairperson of the Examining Board shall ensure that the candidate is assigned a topic for a master's thesis in due time.
- (4) The master's thesis must be started no later than four weeks after completing all other examinations of the master's degree program. The examination office shall be notified of the start in writing, using a form issued by the examination office.
- (5) The master's thesis may only be started if all modules of the first two semesters have been completed successfully according to the degree plan.
- (6) The completion period for the master's thesis is six months. The topic and the task must be designed in such a way that the master's thesis can be completed by the specified deadline. The topic can be rejected only once and only within the first two months. In exceptional individual cases, the Examining Board can extend the completion period for the master's thesis by up to two months upon substantiated request. The master's thesis should not exceed a total of 70 pages.
- (7) In case of an illness of the candidate and other cases for which the candidate is not responsible, the Examining Board can extend the completion period for the master's thesis upon request. The application shall be submitted to the Examining Board before the end of the completion period and shall be substantiated. The application shall be accompanied by the appropriate documents.
- (8) The thesis must include a title page, a content overview, a list of sources and a bibliography. The parts of the thesis that are taken from other works in terms of their wording or meaning must be clearly identified, stating the sources, in all cases. The candidate will add a written assurance to the thesis stating

that he/she has completed the thesis independently, has used only the indicated sources and aids and has identified all quotations; such assurance shall also be given, in particular, for tables, sketches, drawings and pictorial representations.

Section 17

Acceptance and assessment of master's thesis

- (1) The master's thesis shall be submitted in triplicate to the Examining Board in due time; the date of submission shall be recorded. If the master's thesis is not submitted in due time, it will be assessed as "not sufficient" (5.0). Additionally, an electronic version of the master's thesis (not protected by a password) shall be submitted on a suitable data storage medium for the purposes of plagiarism assessment.
- (2) The master's thesis shall be reviewed and assessed by two examiners, one of whom must be a member of the Department "Chemistry – Biology". One of the examiners shall be the person who has assigned the thesis. The second examiner is appointed by the chairperson of the Examining Board. The individual assessment shall be made according to Section 18 (1) and substantiated in writing. The grade of the master's thesis is the result of the arithmetic mean of the two grades. If, however, the difference between the two grades is greater than 2.0, the chairperson of the Examining Board shall appoint a third examiner. In this case, the grade of the master's thesis is the result of the arithmetic mean of the two better individual assessments. If one of the two reviewers assesses the master's thesis as "not sufficient", an additional third examiner appointed by the Examining Board will also assess the thesis. If, in this case, at least two reviewers assess the master's thesis at least with the grade "sufficient" (4.0), the grade "not sufficient" will not be taken into account and the result is the arithmetic mean of the two other grades. Otherwise the master's thesis is failed. The candidate shall be notified of the assessment of the master's thesis after eight weeks at the latest. The Examining Board shall be notified of the assessment of the master's thesis by the examiners no later than four weeks after submission of the master's thesis.

Section 18

Assessment of course work and examinations, formation and weighting of grades

- (1) The grades for the individual examination performances are determined by the examiners. The following grades shall be used for assessment of the examination performances:

1 (very good):	excellent performance
2 (good):	performance significantly exceeding the average requirements
3 (satisfactory):	performance matching the average requirements
4 (sufficient):	performance still meeting the requirements despite some deficiencies
5 (not sufficient):	performance not meeting the requirements due to significant deficiencies

For differentiated assessment of the examination performances, a value of 0.3 can be added or subtracted from individual grades; however, the grades 0.7, 4.3, 4.7 and 5.3 are excluded. If at least a grade of 4 has been achieved, the corresponding credit points will be awarded.

- (2) In case of different assessment by two examiners, the grade is formed by the arithmetic mean of the two assessment. Section 17 (2) shall remain unaffected.
- (3) Completed course work is assessed as either "passed" or "failed" only.
- (4) For combined examinations, the assessment consists of the weightings of the individual examination elements as specified in the module handbook.
- (5) The overall grade of the master's degree program is calculated as the mean value of the individual grades, taking into account the weighting of the examined modules. The respective weighting of the individual grades is based on the number of allocated credit points (CP). For calculation, only the first decimal

place following the point is taken into account; all further places are deleted without any rounding. See the Annex for an example of calculation.

- (6) The overall grade of the master's degree program shall be, for an average grade of 1.0 – 1.5 = very good;
1.6 – 2.5 = good;
2.6 – 3.5 = satisfactory;
3.6 – 4.0 = sufficient.
- (7) Course work and examinations are considered passed if, in case they have been graded, they have been assessed with a grade of 4.0 or better or, in case they have not been graded, have been assessed as "passed".
- (8) The master's degree program is considered passed if all course-related examinations as well as the grade of the master's thesis are at least "sufficient" (4.0).

Section 19

Repeating course work and retaking examinations

- (1) All examinations according to Section 15 other than the master's thesis that have been failed according to Section 18 or are considered failed according to Section 12 (2) or (5) can be retaken twice. Deviating from the above, module examinations offered as combined examinations and containing an internship or exercise assessment (Section 15 (3)) can be retaken only once.
- (2) Course work can be repeated without limitation.
- (3) If the right to take an examination in one of the compulsory elective subjects has been lost, the candidate can choose a different compulsory elective module.
- (4) If the right to take an examination in a compulsory module has been lost, the candidate can submit an application for an oral follow-up examination in the module for which the right to take the examination was lost to the Examining Board within four weeks if he/she has obtained a semester-specific minimum amount of credit points at the end of the second examination period according to Section 7 (3) of semesters 2, 4, 6, 8 and 9. The decision on the application shall be taken by the Examining Board. If it has been substantiated that the candidate is not responsible for missing the deadline, in particular in case of illness or failure of the technical equipment essential for the master's thesis, the Examining Board can extend the deadline as appropriate; in the cases stated in Section 64 (3a) HEA, such an extension is compulsory. The minimum amount of credit points which must be obtained until the end of the individual semesters is listed below:

End of 1st semester:	15 credit points
End of 2nd semester:	35 credit points
End of 3rd semester:	55 credit points
End of 4th semester:	70 credit points
End of 5th semester:	84 credit points
End of 6th semester:	120 credit points

If the request is accepted, the oral follow-up examination with a minimum duration of 45 minutes will take place in the presence of the chairperson of the Examining Board. If the follow-up examination is passed, the grade "sufficient" (4.0) will be awarded. Retaking this follow-up examination is not permitted.

- (5) If the master's thesis has been assessed as "not sufficient" (5.0), it can be repeated once immediately. A second repetition is not permitted.
- (6) For the repetition according to paragraph 4, the candidate can propose a different examiner.

- (7) In addition, a single passed examination from the entire master's degree program can be retaken for grade improvement regardless of when the first examination was passed. This examination must be taken in the fourth semester and requires a separate registration in writing at the examination office. The master's thesis is excluded from this provision.

Section 20

Passing and failing the master's degree program

- (1) The master's degree program is passed upon documentation of 120 credit points acquired according to these Examination Regulations.
- (2) The master's degree program is failed without the right of any retake or repeat if
- a) all retake or repeat options for a compulsory module according to Section 19 have been exhausted, or
 - b) the candidate has lost the right to take examinations, and
 1. the candidate has not submitted an application for a follow-up examination, or
 2. the candidate has submitted an application for a follow-up examination which was rejected, or
 3. the candidate has submitted an application for a follow-up examination which was accepted, and the candidate has failed the follow-up examination, or
 - c) the master's thesis was assessed with a grade less than "sufficient" in consideration of a possible repeat.
- (3) If the candidate has failed to complete the master's degree program, he/she will be issued a note upon request and upon submission of the corresponding documents as well as the attestation of exmatriculation. This note will include the completed course work and the passed examinations and their grades as well as the remaining course work to be completed and examinations to be passed and will indicate that the master's examination was failed.
- (4) The note on the failed master's degree program shall include a statutory remedy notice.

Section 21

Certificate

- (1) The candidate will receive a certificate and a transcript of records (ToR) confirming graduation from the master's degree program without delay, but no later than within four weeks after the last examination performance in each case. The certificate includes the topic and the grade of the master's thesis as well as the overall grade determined according to Section 18 (6). The transcript of records includes all examinations in which credit points have been acquired and the grades achieved therein. The transcript of records provides information about the individual course of study, i.e. the chosen specialist profile, all attended courses and modules as well as all performances (including the master's thesis) completed in the context of the degree program and the corresponding assessments. In particular, it also includes the individual module grades.
- (2) The certificate is signed by the chairperson of the Examining Board. The date of the certificate shall be the date on which the last examination was performed.

Section 22

Master's diploma and diploma supplement

- (1) Together with the certificate, the candidate is issued a master's diploma with the date of the certificate. It attests the award of the master's degree according to Section 3.

- (2) The master's diploma is signed by the dean of the Faculty and the chairperson of the Examining Board and the seal of the Faculty is affixed.
- (3) Together with the master's diploma, the candidate receives an equivalency certificate which states that the academic degree "Master of Science in Chemistry" is equivalent to the academic degree "Diplom-Chemikerin" or "Diplom-Chemiker".
- (4) A diploma supplement is issued together with the certificate of graduation from the master's degree program. The diploma supplement contains information about the degree program, its requirements and contents, the grading system and the type of degree. The diploma supplement is completed by information about the university and the German system of degree programs. In the diploma supplement, the ECTS level of the overall grade is certified according to the following relative ECTS assessment scale:

A = the top 10%

B = the next 25% C =

the next 30% D = the

next 25% E = the next

10%

The calculation of the relative ECTS grade is based on the final grades of the graduates of the master's degree program "Chemistry (Master of Science)" who have successfully completed the program over the course of the last 24 months, calculated from the month the certificate is issued. The attestation of ECTS level will only be issued for groups of at least 30 graduates.

Section 23

Invalidity of master's examination, revocation of degree of "Master of Science"

- (1) If a student has committed fraud in an examination and this fact becomes known only after the certificate has been issued, the Examining Board can retroactively correct the grades accordingly for those examinations for which the fraud has been proven and can declare the examination, in part or in total, as failed.
- (2) If the requirements for admission to an examination were not met without any intention of fraud by the student and this fact becomes known only after the certificate has been issued, this defect is remedied by the candidate having passed the examination. If the student has obtained admission with intention of fraud, the Examining Board shall decide on the legal consequences in consideration of the Administrative Procedure Act of the Land of North Rhine-Westphalia.
- (3) Before the decision is made, the person concerned shall be given the opportunity to explain himself/herself.
- (4) The incorrect examination certificate shall be seized and a new certificate shall be issued if appropriate. Any decision according to paragraph 1 and paragraph 2, sentence 2 is excluded after five years have passed since the issuance of the examination certificate. The period between initiation and completion of an administrative procedure for the review of the revocation of the degree award is not counted towards the five-year term according to sentence 2.
- (5) If the overall examination has been declared failed, the degree of "Master of Science" shall be revoked.

Section 24

Access to examination documents

After each examination, the candidate is granted access, upon request by application to the Examining Board, to the examination minutes or, for written examinations and/or the master's thesis, to the examination as performed and the relevant reviews.

Section 25

Entry into effect and publication

- (1) These Examination Regulations shall be published in the "Official Notices of the University of Siegen".
- (2) These Examination Regulations enter into effect from October 1, 2015.
- (3) These Examination Regulations apply to all students who have enrolled in the master's degree program in Chemistry at the University of Siegen starting from winter semester 2015/2016. Students who have enrolled in the master's degree program in Chemistry prior to winter semester 2015/2016 can complete their master's degree according to the provisions of these Examination Regulations upon request. The application shall be submitted to the examination office and cannot be revoked.
- (4) Students who have enrolled in the master's degree program in Chemistry prior to winter semester 2015/2016 can complete their degree according to the "Examination Regulations for the degree program in Chemistry with the degree of Master of Science" at the University of Siegen dating from November 18, 2009 (Official Notice 17/2009) as amended until and including winter semester 2017/2018. Afterwards these Examination Regulations shall apply without limitation as amended at that time.
- (5) The "Examination Regulations for the degree program in Chemistry with the degree of Master of Science" at the University of Siegen dating from November 18, 2009 (Official Notice 17/2009) will cease to be in effect at the end of winter semester 2017/2018.

Issued on the basis of the resolutions of the Faculty Council of Faculty IV – Faculty of Natural Sciences and Technology of October 7, 2015

Siegen, December 15, 2015

The Rector

sign.

(University Professor Dr Holger Burckhart)

Annex 1: Degree plan for the master's degree program "Chemistry (Master of Science)"

	Module	L / HWS^[a]	E,S / HWS^[a]	I / HWS^[a]	Σ HWS	CP
1st sem.						
7.1	Inorganic Chemistry	2	2		4	6
7.2	Organic Chemistry	2	2		4	6
7.3	Physical Chemistry	2	2		4	6
7.4	Applied Chemistry I ^[b]	2		5	7	6
7.5	Applied Chemistry II ^[b]	2		5	7	6
2nd sem.						
8.1	Compulsory Elective Subject I ^[c]	2	2		4	6
8.2	Compulsory Elective Subject II ^[d]	2	2		4	6
8.3	Compulsory Elective Subject III ^[e]	2	2		4	6
8.4	Internships in Compulsory Elective Subject I/II ^[f]			10	10	6
8.5	Foreign Language	1	1		2	3
8.6	Academic Writing	1	1		2	3
3rd sem.						
9.1	Compulsory Elective Subject I	2	2		4	6
9.2	Compulsory Elective Subject II	2	2		4	6
9.3	Compulsory Elective Subject III	2	2		4	6
9.4	Research Internship I ^[g]		1	8	9	6
9.5	Research Internship II ^[g]		1	8	9	6
4th sem.						
10.1	Master's Thesis (6 months)					30

^[a] L = lecture; E/S = exercise or seminar; I = internship. Factors for the assessment of credit points (CP): L/E/S 1.5 x HWS; I 0.6 x HWS; rounded to 1/2 CP in each case. ^[b] Applied Chemistry I and II: Analytical Chemistry, Construction and Materials Chemistry, Macromolecular Chemistry (Applied Chemistry I must not be identical to Applied Chemistry II). ^[c] Compulsory Elective Subject I: Inorganic Chemistry, Organic Chemistry, Physical Chemistry. ^[d] Compulsory Elective Subject II (must not be identical to Compulsory Elective Subject I): Inorganic Chemistry, Analytical Chemistry, Construction and Materials Chemistry, Macromolecular Chemistry, Organic Chemistry, Physical Chemistry. ^[e] Compulsory Elective Subject III: Structural Engineering, Biology, Business Administration, Didactics of Chemistry, Electrical Engineering, Foreign Language and Communication, Computer Science, Mechanical Engineering, Mathematics, Physics, Inorganic Chemistry, Analytical Chemistry, Construction and Materials Chemistry, Macromolecular Chemistry, Organic Chemistry, Physical Chemistry. ^[f] Internships in Compulsory Elective Subject I/II must correspond to the Compulsory Elective Subjects I or II in the second semester. ^[g] Research Internships I and II must correspond to the Compulsory Elective Subjects I and/or II in semesters 2 or 3.

Annex 2:

**Regulations
on the Determination of Qualification
for the master's degree program
"Chemistry (M.Sc.)"
at the University of Siegen**

Dating from December 15, 2015

Based on section 2 (4) and section 64 (1) of the Act on the Higher Education Institutions of the Land of North Rhine-Westphalia (Higher Education Act HEA) of September 16, 2014 (GV. NRW. p. 547) and Section 4 (2) of the Examination Regulations for the degree program in Chemistry with the degree of Master of Science of the University of Siegen dating from December 15, 2015, the University of Siegen has adopted the following Regulations:

Annex 2:

Regulation on the Determination of Qualification for the master's degree program "Chemistry (M.Sc.)" at the University of Siegen

Section 1

General

- (1) These Regulations govern the determination of specific educational background with regard to the degree program according to Section 49 (7) HEA (hereinafter: "Determination of Qualification") in conjunction with Section 4 of the Examination Regulations for the degree program in Chemistry with the degree of Master of Science of the University of Siegen.
- (2) The purpose of the determination procedure is for the prospective student to demonstrate that he/she possesses qualifications with regard to the degree program allowing the assumption that the goal of the degree program will be achieved.
- (3) Demonstrating the qualification is a requirement for enrollment in the master's degree program in Chemistry at the University of Siegen. It must have been demonstrated prior to starting the degree program.

Section 2

Procedure for determination of qualification

- (1) The Determination of Qualification is organized and documented once per summer semester and once per winter semester by the Examining Board for the master's degree program in Chemistry at the University of Siegen. The admission number is specified on the basis of the available capacity in each case.
- (2) The applications for admission to the determination procedure shall be submitted in writing to the Examining Board for the master's degree program in Chemistry. The deadlines are published on the web page for the master's degree program in Chemistry (<http://www.uni-siegen.de/msc-chemistry>). The registration can be repeated twice in case of lacking qualification.
- (3) The application shall be accompanied by the following documents:
 1. A curriculum vitae in tabular form, in English or German.
 2. Documentation of successful completion of a bachelor's program in chemistry at a university within the area of application of the German Basic Law or academic degree recognized as equivalent by the Examining Board. Students who will graduate from the bachelor's program in the current semester submit the examinations passed up to that date as well as documentation of having started the bachelor's thesis. The bachelor's certificate can be submitted until the end of the 1st semester of the master's degree program if the prospective student can provide documentation of completed course work with an allocated total of 150 credit points.
 3. Names of at least two university teachers who can be contacted for their opinion if necessary.
 4. Documentation of sufficient proficiency in English in the form of one of the language tests listed below:
 - Test of English as a Foreign Language (TOEFL): Internet test: at least 72 points, or computer test: at least 200 points, or paper-based test: at least 533 points;
 - Cambridge Certificate of Advanced English (CAE): at least grade C1;
 - International English Testing System (IELTS): at least grade 6;
 - English at B2 level according to the Common European Framework of Reference for Languages.

Section 3

Admission to the determination procedure

Admission to the determination procedure requires the timely submission of all documents listed in Section 2 (3). If the documents are not submitted in due time, no admission to the determination procedure can be granted.

Section 4

Determination procedure

- (1) Prospective students with an overall bachelor grade of 2.5 or better in a completed bachelor's program in chemistry at a university within the area of application of the German Basic Law or an academic degree recognized as equivalent by the Examining Board are admitted to the master's degree program "Chemistry (Master of Science)" without any further examination.
- (2) If no equivalent bachelor's degree according to paragraph 1 can be submitted or the overall bachelor grade in a completed bachelor's program in chemistry at a university within the area of application of the German Basic Law is less than 2.5, the Determination of Qualification can be carried out by the Examining Board for the master's degree program in Chemistry if the overall impression of the application allows to expect a successful completion of the master's degree program with regard to the subject. For this purpose, a subject-related discussion will be held with the prospective student. If necessary, opinions will be obtained from the university teachers mentioned in Section 2 (3) No. 3. In individual cases, the Examining Board for the master's degree program in Chemistry can admit further written and oral forms of Determination of Qualification suitable to review the contents of the subject-related discussion.
- (3) On the basis of the criteria stated in paragraphs 1 and 2 in conjunction with Section 4 of the Examination Regulations, the Examining Board for the master's degree program in Chemistry will decide on acceptance of the prospective student into the master's degree program in Chemistry. The prospective students who fulfill the requirements according to paragraph 1 shall be admitted.

Section 5

Subject-related discussion

- (1) The subject-related discussion will take between 15 and 45 minutes and will be held by an examination committee. The content of the subject-related discussion is based on the specifications of the German Chemical Society for a six-semester bachelor's program in chemistry. The discussion can be held in English in part or in total.
- (2) On the basis of the subject-related discussion and the obtained opinions – if applicable – as well as the overall bachelor grade from a completed bachelor's program in chemistry at a university within the area of application of the German Basic Law or the grade of a comparable degree, the prospective student will be assessed as "qualified" or "not qualified".
- (3) Prospective students who have been assessed as "qualified" are awarded the qualification to enroll in the degree program.

Section 6

Examining committee

For the organization of the subject-related discussion or the form of implementation permitted by the Examining Board on an individual-case basis, the Examining Board for the master's degree program in Chemistry will form an examining committee. This committee will consist of a university teacher from the Department of Chemistry – Biology and an observer.

Section 7

Minutes

Minutes will be compiled on the implementation of the procedure for Determination of Qualification, which shall include:

1. the date and place of the procedure for determination of Qualification,
2. the names of the examining persons,
3. the name of the prospective student,
4. the duration and the scope of the procedure,
5. the individual assessment and the result.

The minutes shall be signed by the examining persons.

Section 8

Notifications

The prospective students will be notified in writing of the outcome of the determination procedure by the examination office. Notifications of rejection shall include reasons and a statutory remedy notice.

Section 9

Failure to attend and fraud

- (1) If a prospective student fails to attend the examination for Determination of Qualification without a sufficient excuse, the special qualification shall be considered as not determined. If a prospective student was prevented from attending the examination for Determination of Qualification due to illness, the Examining Board for the master's degree program in Chemistry will set a retake date. In case of illness, a medical certificate documenting the inability to take examinations shall be submitted.
- (2) If a prospective student has committed fraud in a procedure for determination of special qualification and this fact becomes known only after issuance of the certificate according to Section 7, the Examining Board for the master's degree program in Chemistry can revoke the determination of special qualification. The Examining Board will notify the registrar's office of the revocation.
- (3) The prospective student shall be notified of incriminating decisions of the selection committee without delay; such decisions shall include reasons and a statutory remedy notice.

These Regulations shall enter into effect on the day following their publication.

Issued on the basis of the resolutions of the Faculty Council of Faculty IV – Faculty of Natural Sciences and Technology of October 7, 2015.

Siegen, December 15, 2015

The Rector

sign.

(University Professor Dr Holger Burckhart)

Annex 3: Example of shortened calculation of the overall grade taking the example of grades for a first semester

Module	Grade	CP	CP × Grade
Inorganic Chemistry	1.3	6	7.8
Organic Chemistry	1.7	6	10.2
Physical Chemistry	2.3	6	13.8
Applied Chemistry I	2.7	6	16.2
Applied Chemistry II	2.3	6	13.8
Total		30	61.8

The following results for the above example: $61.8 \div 30 = 2.06$ and overall grade 2.0.