

# Translation

Examination Regulations  
for the Consecutive Master's Degree Program

**“Medical Immunosciences and Infection”**

at the Faculty of Medicine  
of the University of Bonn

This document is an official translation of the Examinations Regulations published in Amtl. Bek. der Universität Bonn, 47. Jg., Nr. 16, 01. August 2017.

Please note that only the original German version is legally binding.

**Amendment to and updated version of the  
Examination Regulations  
for the Consecutive Master's Degree Program**

**“Medical Immunosciences and Infection”**

**of the Faculty of Medicine  
of the University of Bonn  
Version: July 14, 2017**

By virtue of § 2, para. 4 and § 64, para. 1 of the NRW Higher Education Act (Gesetz über die Hochschulen des Landes Nordrhein-Westfalen, Hochschulgesetz) of September 16, 2014 (Legal and Regulatory Gazette of North Rhine-Westphalia, p. 547) as last amended by Articles 3 and 4 of the Act to Strengthen Care in Nursing and to Amend other Provisions (Gesetz zur Stärkung der Versorgung bei Pflege und zur Änderung weiterer Vorschriften) of April 7, 2017 (Legal and Regulatory Gazette of North Rhine-Westphalia, p. 414), the Faculty of Medicine of the University of Bonn issued the following Regulations:

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Part 1  
Scope

**§ 1**  
**Scope**

(1) Students who commence their studies within the consecutive master's degree program "Medical Immunosciences and Infection" at the University of Bonn after entry into force of these Examination Regulations are subject to these Examination Regulations.

Part 2  
Program Objective, Degree and Standard Period of Study

**§ 2**  
**Objective of the degree program and purpose of the examination**

(1) The consecutive master's degree program "Medical Immunosciences and Infection" offered by the Faculty of Medicine of the University of Bonn is international and research-oriented.

(2) Students in this master's degree program are to acquire the necessary scientific knowledge, skills and methods as well as relevant key qualifications for an occupation in the field, enabling them to conduct sound research, to critically assess and practically apply research findings and methods as well as to act responsibly. This includes giving due regard to changes and requirements in the working world and, if applicable, in cross-disciplinary references. The program objectives mainly focus on

- building expert knowledge regarding current research by expanding the students' basic knowledge,
- building methodical and analytical competences, enabling students to expand their research findings on their own authority, with a strong emphasis on research methods and strategies.

(3) Students are to learn how to approach complex problems and work on their solution beyond the existing scope of knowledge, using research methods.

(4) The master's examination shall lead to conferral of a master's degree in "Medical Immunosciences and Infection", which qualifies the holder for positions demanding extensive skills in this field.

**§ 3**  
**Academic Degree**

Candidates who successfully complete the master's examination for the "Medical Immunosciences and Infection" degree program shall be awarded a Master of Science (MSc) degree by the Faculty of Medicine of the University of Bonn.

**§ 4**  
**Standard period of study, range of courses, credit point system and language of instruction/examinations**

(1) The standard period of study, including the master's thesis, is four semesters (120 CP) when pursuing the degree program full-time.

(2) The contents of the degree program are selected and limited in a manner that the master's examination can be completed within the standard period of study. They are organized in modules that, as a rule, consist of courses with a thematic, methodical or systematic connection.

- (3) As a rule, each module is completed by passing a module examination, awarding credit points (CP) in accordance with the European Credit Transfer and Accumulation System (ECTS). One credit point is equivalent to a calculated student workload in contact hours and self-learning of 30 hours.
- (4) The degree program includes 57 CP in compulsory modules, 33 CP in subject-specific elective modules and 30 CP for the master's thesis. Details on modules, admission to courses and the amount of credit points per module are set forth in the module structure (Annex 1).
- (5) Students receive a study schedule as recommendation on how to structure their course of studies. Students may receive an individual study schedule upon request.
- (6) The language of instruction and examinations is English. The module structure may make exceptions for individual modules.
- (7) The degree program starts only in the winter semester of each year.

### Part 3

#### Admission requirements and recognition of academic achievements

##### § 5

#### **Degree program admission requirements**

- (1) The consecutive master's degree program "Medical Immunosciences and Infection" is open to applications from graduates from a university undergraduate degree program in (molecular) biomedicine, biochemistry, chemistry, pharmacy, biotechnology, biology, human biology or medicine (2nd state examination) or a related field.
- (2) The university degree in paragraph 1 must have been completed with a grade of at least 2.3.
- (3) The university undergraduate degree as per para. 1 is to provide proof of the following qualifications: Knowledge from the undergraduate degree in the areas of:
1. Immunology, pharmacology, biochemistry, anatomy or physiology for a total of at least 30 CP, and
  2. Chemistry, genetics, developmental biology, molecular biology, cell biology or microbiology, as demonstrated by modules for a total of at least 30 CP, and
  3. Laboratory experience in at least one of the subjects mentioned in points 1 or 2 for at least 20 CP.
- (4) English skills at level B2 or higher according to the Common European Framework of Reference for Languages (CEFR) are a prerequisite for admission to the degree program and are to be proved by submitting a recognized language certificate (e.g. TOEFL, IELTS) or equivalent proof.
- (5) This does not affect admission restrictions due to capacity limits (numerus clausus).
- (6) The selection of successful applicants is subject to the "Regulations on Selection Procedures for the Master's Degree Program 'Medical Immunosciences and Infection'" (Selection Procedure Regulations).

##### § 6

#### **Recognition of and granting credit for course and examination achievements**

- (1) Academic achievements in degree programs at other public or officially recognized universities, at public or officially recognized vocational academies or in degree programs at foreign public or officially recognized universities will be recognized upon request if the acquired skills are deemed equivalent to those that would have been acquired at the University of Bonn. The examination board assigns credit points for

these achievements to the corresponding module examinations defined in the curriculum. The same applies to achievements in other degree programs at the University of Bonn. Provided there are substantial similarities in the content of the examination, enrollment may be denied to applicants who failed the final attempt at an examination that cannot be compensated for in a degree program with substantial similarities in content with the consecutive master's degree program "Medical Immunosciences and Infection".

(2) The question of recognition shall be reviewed with special regard to the significance of differences. In order to determine whether significant differences do or do not exist, the topic, scope and requirements of the academic achievement to be recognized is compared to the same aspects of the academic achievement that the former is to replace. This shall not be done by skeletal comparison but rather in the form of an overall review and evaluation. A difference in the amount of awarded credit points alone does not constitute significant difference. The aforementioned regulations respectively apply to academic achievements in degree programs designed for continued education. Academic achievements are recognized to their full extent if significant difference cannot be determined. If the reviewers, in accordance with the principles described above, find that a certain academic achievement can only be recognized in part, credit points shall partially be assigned to the respective module. The respective module shall only be considered passed when all missing course work and/or examinations are completed; only then, credit points shall be awarded to the extent stipulated in these Regulations. Scope and nature of course work and/or examinations to be completed are at the discretion of the examination board. Equivalence agreements approved by the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder of the Federal Republic of Germany and the German Rectors' Conference as well as agreements under university partnerships shall be observed when determining equivalence.

(3) In accordance with § 8, para. 4, sentence 2, the examination board has authority over the processes that underlie recognition of or granting credit for academic achievements. The examination board decides which degree programs are related to or show substantial similarities in content with this master's degree program. Representatives of the relevant departments shall be consulted when reviewing the significance of differences. In case of doubts regarding whether academic achievements completed abroad should be recognized, the Central Office for Foreign Education may be consulted. Students shall be notified within 12 weeks of whether an academic achievement is recognized, including information on legal remedies available. In case an achievement is not or only partially recognized, the examination board shall provide the reasons for its decision, thus bearing the burden of proof. If the examination board denies recognition, students may apply for an internal audit to be conducted by the Rectorate.

(4) If examinations are recognized, the same grades—provided grading systems are comparable—shall be added to the student's transcript of records and, weighted with the credit points of the module to which credit points are assigned, considered when calculating the overall grade. If course work is recognized, the entry "pass" shall be made in the student's transcript, not assigning a grade. Should the grading systems not be comparable, the entry "pass" shall also be made in the student's transcript. Recognized academic achievements shall be identified as such in the student's certificate. Academic achievements in degree programs not using the credit point system shall be translated by the examination board into credit points, provided that the respective examination is equivalent to the module examinations defined in these Examination Regulations. Such translation must adhere to the scale approved by the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder of the Federal Republic of Germany for comparisons to the ECTS system.

(5) If the requirements defined in para. 1 are met, students are legally entitled to having their academic achievements recognized. The student must provide all information on the academic achievement in question deemed necessary for recognition. Each semester, the examination board defines a deadline in that semester by which applications for recognition must be submitted. Applications submitted after that deadline cannot be processed until the subsequent semester.

(6) Applicants who, due to their performance in a placement test as per § 49, para. 12 of the NRW Higher Education Act, have earned the right to enter the degree program in a higher program-related semester will be granted credit for the knowledge and skills demonstrated in the placement test, with credit points being assigned to examinations that form part of the master's examination. The examination board is bound to the results of the placement test stated in the certificate.

(7) Other skills and qualifications, up to a maximum of 50% of the credit points to be earned pursuant to § 4, para. 1, may be recognized upon request, condition being documented proof. These skills and qualifications shall only be recognized if they are equivalent in content and skill level to the examinations they are to replace.

## **§ 7**

### **Admission to individual courses**

(1) If, in individual cases, admission to a course, due to its nature, purpose or to other reasons, needs to be limited and the number of applications exceeds the defined capacity, the lecturer may file a request with the dean of the faculty to which the respective module is assigned to manage admissions to that course, giving due regard to § 59 of the NRW Higher Education Act. Criteria for admissions in these cases are stipulated in Annex 2 of these Examination Regulations.

(2) Courses for which admissions can be limited are stipulated in the module structure. The faculty council shall announce the number of admissions before the beginning of a semester.

## Part 4

### Examination board and examiners

## **§ 8**

### **Examination board and administrative office**

(1) The faculty council of the Faculty of Medicine shall appoint an examination board that is to organize examinations and manage the tasks outlined in these Examination Regulations. The dean shall assure that the examination board is able to duly fulfill its tasks and does reliably do so. The dean shall give appropriate instructions for this purpose.

(2) The examination board shall have a chairperson, a deputy chairperson and an additional five regular members. The chairperson, the deputy chairperson and two additional members are appointed from the group of university professors (Hochschullehrerinnen und Hochschullehrer). The faculty council appoints another member from among the faculty's academic staff (akademische Mitarbeiterinnen und Mitarbeiter) and two other members from the group of students in the master's degree program, separated by group. All university professors teaching in the degree program are eligible to become members of the examination board. From among academic staff, those who are teaching or previously taught in the master's degree program "Medical Immunosciences and Infection" are eligible to become members. From the group of students, those enrolled in the master's degree program are eligible to become members. A deputy shall be appointed for each member. The term of office of members from the group of professors and from the group of academic staff is three years. The term of office of members from the group of students is one year. Members may be re-elected. The dean and vice dean of the faculty can also be members of the examination board, or its chairperson or deputy chairperson, provided the faculty regulations do not exclude this.

(3) The examination board is an administrative body as defined by German administrative procedure law and the German law governing procedure in contentious administrative matters. The faculty shall create an administrative office for administrative support of the examination board.

(4) The examination board shall ensure compliance with the provisions of the Examination Regulations and make certain that the examination procedure is conducted in accordance with regulations. It shall be responsible in particular for recognizing academic achievements as well as handling objections against decisions made within examination procedures. It shall report to the faculty council on a regular, at least annual basis on the development of examination and study periods, including the time taken to complete master's theses and the distribution of overall grades. Once a semester, the examination board shall inform the Student Registry on which students, according to final ruling by the examination board, have failed their final attempt at passing the master's examination in accordance with § 25, para. 8. The examination board shall provide input for amendments to the Examination Regulations and study schedule. It may delegate tasks to the chairperson. This shall not apply to the delegation of decisions on appeals or to its reporting duties to the faculty council.

(5) Examination board meetings are not open to the public. All members of the examination board as well as their deputies shall be bound to confidentiality. Members who are not civil servants shall be bound to confidentiality by the chairperson of the examination board. Summary minutes shall be taken as a record of the examination board's discussions and decisions and submitted to the administrative office within ten days after the examination board meeting.

(6) The examination board shall have a quorum when, in addition to the chairperson or their deputy, at least four more members or their deputies, including at least two members from the group of professors and lecturers, are present. Resolutions shall be passed by simple majority. In the event of a tie vote, the chairperson's vote shall be the deciding vote. The student members of the examination board shall not be involved in the assessment and recognition of course and examination achievements, setting examination questions or the appointment of examiners or assistant examiners. Members of the examination board shall have the right to be present during examinations. Resolutions may be adopted by means of a circulation procedure.

(7) Directives, dates set and other communication of the examination board with public relevance shall, giving due consideration to data protection requirements, be made available by public display or in electronic form with legally binding effect. Additional publications of other nature are admissible but not legally binding.

(8) The examination board may include staff from the administrative office who are involved in the examination procedure for consultation on a regular basis or for individual meetings or agenda items. These staff shall have a right to speak but no right to vote.

## **§ 9**

### **Examiners and assistant examiners**

(1) The examination board shall appoint the examiners and assistant examiners. Examinations may only be held by persons teaching at the University of Bonn and, if necessary or appropriate with regard to fulfilling the purpose of the examination, people with practical and training experience in the field. Examinations may only be graded by staff with at least the same or an equivalent qualification as the one to be determined through that examination. Assistant examiners must have at least passed the master's examination or an equivalent examination.

(2) Module examinations are held by the responsible teaching staff on that module. If a teacher, due to illness or other important cause, is not able to hold module examinations in due time, the examination board shall be responsible for the appointment of another examiner for these module examinations.

(3) Examiners shall be independent of instructions in their conduct of examinations.

(4) Candidates may propose examiners for their master's thesis. A candidate's proposal should be followed whenever possible; however, it does not substantiate a claim.

- (5) The examination board assures that the candidate is informed of the name of the examiners in due time, within two weeks before the date of the respective examination.

#### Part 5

#### Scope, conduct, form and dates of examinations

### § 10

#### Scope of the master's examination

- (1) The master's examination is intended as proof of qualification for positions demanding extensive skills in the respective field as well as in-depth and research-oriented scientific qualification.
- (2) The master's examination consists of the module examinations completed during the course of studies and reflecting the course contents of the modules specified in the module structure (Annex 1), including the master's thesis. All examinations are to be completed within the standard period of study stipulated in § 4, para. 1.
- (3) Examinations are completed during the course of studies. As a rule, one module examination is assigned to each module, even when a module consists of more than one course. The grade of the module examination will be indicated on the degree certificate. Students must successfully complete a module in order to be awarded the assigned credit points. A module is considered successfully completed once
- a. the assigned module examination or all of the assigned examination components of the module have been graded "Sufficient" or higher, or
  - b. proof has been provided that the requirements in the module structure for acquiring credit points instead of a module examination are satisfied.
- (4) If a module consists of more than one course, with associated module examination components, the credit points will be awarded after the last module examination component has been passed.
- (5) Examinations are generally held in the language of instruction. Upon request by the student and after consultation with the examiner, examinations or parts of examinations can also be taken in another language related to the degree program. However, no right to take parts of the examination in this language exists.

### § 11

#### Admission to the master's examination and to module examinations

- (1) The student must apply for admission to the master's examination. This application shall be submitted to the examination board in writing together with the registration for the first module examination. The following shall be included with the application:
1. Proof of meeting the general admission requirements stipulated in § 5;
  2. A certificate of enrollment as proof of enrollment as a student in this degree program at the University of Bonn or as proof of admission as a cross-registered student in accordance with § 52 of the NRW Higher Education Act;
  3. A statement whether the student has failed a final attempt at an examination or the final attempt at the master's examination in this degree program or, at the time of registration for a module examination, is involved in another examination that, if failed, would give cause for denial of enrollment. The same applies to examination procedures of degree programs with substantial similarities in content.
- (2) The examination board may only admit students to module examinations who

1. can provide proof of meeting the admission requirements defined by para. 1; an enrollment certificate of another degree program at the University of Bonn can serve as proof as defined by para. 1 sentence 3 no. 2 if that degree program imports the respective module in accordance with its examination regulations;
  2. meet all requirements that may be stipulated for the module in the module structure (see Annex 1) and have completed the course work required to take the module examination.
- (3) Should the student not be able to submit documented proof as per para. 1 sentence 3 in the required form, the examination board may allow proof to be provided in another form.
- (4) Admission to the master's examination or, respectively, module examinations is at the discretion of the examination board.
- (5) The examination board may only deny admission to the procedure where
- a. documents submitted are incomplete as per para. 1 and/or not submitted as requested by a certain deadline;
  - b. the requirements specified in para. 2 are not met;
  - c. the student has failed a final attempt at an examination that cannot be compensated for or failed the final attempt at the master's examination in this degree program or in a degree program with substantial similarities in content; or
  - d. the student is registered for an examination procedure at another university in the chosen degree program or a degree program with substantial similarities in content as per § 6, para. 1, if failing the examination procedure would mean failing the final attempt at the master's examination.

## **§ 12**

### **Module examinations – registration and withdrawal**

- (1) For each module examination, students shall electronically register with the examination board by the prescribed deadline. Where justified, registrations may be submitted in writing. Registration is only possible if, and as long as, the student satisfies the admission requirements.
- (2) The examination board shall make the examination dates as well as registration periods available by public display or in electronic form; these are cutoff periods.
- (3) Students may withdraw from a written or oral examination in writing or electronically without indicating reasons until one week before the examination date. This shall not affect para. 6. Candidates may withdraw from term papers until one week before assignment of the topic. The date of receipt by the examination board prevails. In cases of examinations that spread over a whole semester and are assigned to a specific course, candidates may not withdraw once topics or places have been assigned.
- (4) Rules for the registration for the master's thesis are defined separately in § 20, para. 2.
- (5) Students must register for their first attempt at an examination by the end of the third semester after the semester in which the course assigned to the examination as per the module structure/curriculum was planned. Students who fail to register within this period lose their right to examination unless they can prove that they were not at fault for failing to register in a timely manner. Students who lose their right to examination are deregistered from the degree program by the Student Registry once the examination board's decision has come into force.
- (6) Students who fail a module examination shall automatically be registered for the next examination date, from which they may not withdraw without giving reasons.

**§ 13****Examination modalities and compulsory attendance**

(1) Module examinations cover the contents and qualification targets of the modules specified in the module structure (Annex 1).

(2) Candidates in module examinations must be students enrolled in this degree program at the University of Bonn or, respectively, in a degree program at the University of Bonn that imports modules from this degree program in accordance with its own examination regulations, or admitted as cross-registered students as defined by § 52 of the NRW Higher Education Act.

(3) In the module examinations, students are to demonstrate the knowledge acquired in the fields taught in the module as well as their ability to understand cross-disciplinary correlations.

Module examinations can be completed by passing graded examination components. Module examinations and module examination components can be

- written examinations,
- oral examinations,
- presentations, and
- reports.

The type of examination and admission requirements are stipulated in the module structure. Deviating from the specifications stipulated in the module plan is possible in accordance with § 16, para. 5 and § 18, para. 4; the examination board shall, in consultation with the examiners, determine the type of examination and, in accordance with § 8, para. 7, announce its decision in due time before the beginning of the semester.

(4) The module structure may stipulate that students must have completed certain assessments (course work) prior to taking a module examination. Where required course work has not been completed, students shall not be admitted to the module examination. Upon request filed by the lecturer, the examination board shall, in accordance with § 8, para. 7, announce the specific requirements regarding such course work before the beginning of the semester.

(5) Two examination dates shall be set for all written and oral module examinations. As a rule, the first examination date shall be set at the end of the lecture period in which the module or assigned course is completed. The second examination date shall be set in a manner that the degree program can be properly continued and completed within the standard period of study. In accordance with § 8, para. 7, the examination board shall announce the examination dates in due time before the beginning of the semester.

(6) For courses in which achieving the qualification target requires active participation by students, the module structure may stipulate mandatory regular participation (compulsory attendance) as prerequisite to being admitted to the examination. Before the beginning of the semester, the examination board shall give reasons for its decision on which courses require compulsory attendance. In such cases, the examination board shall also define when participation can be considered regular, active and successful. Depending on the qualification target of a compulsory attendance course, absences of up to 30% are permissible, including absences excused by means of a medical certificate. In accordance with § 8, para. 7, the examination board shall make the decisions stated in sentences 2–4 before the beginning of the semester.

(7) Examinations are to be graded as follows:

- a. Examinations submitted in writing shall be graded by a minimum of one examiner. Candidates shall be informed of the grades earned in written examinations within four weeks of the particular examination, and the grade awarded for their master's thesis within eight weeks at the latest.
- b. Oral examinations shall always be held by a minimum of two examiners or by a single examiner in the presence of a competent assistant examiner. A record shall be kept of the essential topics and results

of each examination. If the examination is conducted by a single examiner in the presence of an assistant examiner, the examiner shall hear the assistant examiner in private prior to setting a grade. Candidates shall be informed of their grade immediately following the oral examination.

If the examination is conducted by two examiners, the grade shall be calculated using the average of the two individual grades; if the grade of one examiner would result in the examination being deemed failed, a third examiner shall be appointed. In this case, the two better grades shall be averaged together for the final grade. Written or oral examinations that complete a degree program and resit examinations that cannot be compensated for once the final attempt has been failed shall be graded by a minimum of two examiners.

#### **§ 14**

##### **Compensation for disadvantages and deadline extension**

(1) Should a student provide appropriate proof to the examination board that, due to permanent disability, disability that lasts more than one semester or chronic disease, they are not able to make proper use of their intellectual skills in an assessment and can therefore, entirely or in part, not complete an examination in its designated form and duration, the examination board shall approve an equivalent assessment to be conducted in a form suitable to that student's needs. This may include an extension of the period in which the student may complete the assessment. This applies to examinations as well as course work. When determining an equivalent assessment, due regard shall be given to the workload in the respective module. Students who, due to impairment and regardless of support offered by the University, cannot participate in compulsory lab courses or study periods abroad shall be allowed to participate in alternative forms of assessment.

(2) When determining the deadline for the first attempt at an examination in accordance with § 12, para. 5 as well as upon automatic registration for a resit examination in accordance with § 12, para. 6, the examination board shall, upon application and provision of respective proof, consider additional time for:

- a. Caring for and raising underage children as per § 25, para. 5 of the Federal Training Assistance Act (BAföG) – for a maximum of three semesters per child;
- b. Acting as elected representative in a university body, the student body, the student body's student councils or the Studierendenwerke – for a maximum of four semesters;
- c. Acting as gender equality officer – for a maximum of four semesters;
- d. Effects of a disability or severe illness prolonging the period of study;
- e. Caring for spouses, registered partners, direct relatives, or first-degree in-laws – for a maximum of three semesters.

#### **§ 15**

##### **Resitting examinations**

(1) Examinations that have been failed or deemed failed may only be repeated twice. Resits shall be conducted in accordance with § 12, para. 6. Rules for the repetition of the master's thesis are defined in § 21, para. 7.

(2) If the same compulsory module is failed three times with a grade of "Insufficient" (5.0), the candidate shall lose their right to examination and shall be deregistered from the degree program by the Student Registry once the examination board's decision has come into force.

(3) If an elective module has been failed, or the final attempt at an elective module has been failed, the candidate can choose another, previously unchosen elective module as compensation. Such compensation is only possible once. If the compensation option has been used without success, the candidate shall lose their right to examination and shall be deregistered from the degree program by the Student Registry once the examination board's decision has come into force.

- (4) Module examinations graded “Sufficient” or higher cannot be repeated.
- (5) Should a student fail to attend a compulsory resit examination without valid excuse, that examination will be graded “Insufficient” (5.0).
- (6) In modules in which examinations are spread over a whole semester and are assigned to a specific course, examinations cannot be repeated in that same semester. The module examination in such modules can only be repeated by retaking the entire module.

#### **§ 16**

##### **Written examinations**

- (1) In written examinations, students are to demonstrate that, within a specific period of time and with limited auxiliary means, they are capable of understanding a problem from the module’s thematic field and solve this problem using methods commonly used in that field. The examiners shall announce in a timely manner which auxiliary means may be used during a written examination.
- (2) Written examinations may be handwritten or computer-aided examinations, both conducted under supervision. Computer-aided written examinations are in particular free-text or cloze-text examinations that are completed using a computer.
- (3) Written examinations shall last a minimum of 60 minutes and a maximum of 180 minutes. § 13, para. 7 applies accordingly. The examination board shall announce the specific date before the beginning of the semester.
- (4) The examination board may, in conjunction with the examiner, decide that instead of a specified written examination, an oral examination shall be held that covers the module’s subject area; in accordance with § 8, para. 7 this shall be announced in due time before the beginning of the semester.

#### **§ 17**

##### **Multiple choice model**

- (1) Written examinations as per § 16 with a minimum of 50 registered candidates may be conducted entirely or in part using the multiple choice model.
- (2) The examination questions shall be adapted to the specific knowledge covered in the respective module and facilitate reliable results. The examination questions shall be cooperatively developed by two examiners with at least the same or an equivalent qualification as the one to be determined through that examination. When designing the examination questions, the examiners shall define how many and which answers will be considered correct. The number of answers to be ticked shall be indicated on the task sheet. Multiple-choice written examinations can be single-select or multiple-select written examinations. In the case of single-select written examinations, only one of the multiple possible answers is true. A question shall be considered correctly solved if only the correct answer is marked. If the candidate does not tick the correct answer, ticks a wrong answer or ticks more than the one correct answer, the question shall be graded with 0 points. The grade for the written examination shall be the sum of the correct answers. In the case of multiple-select written examinations, the candidate must assess all of the possible answers and label each as true or false. The grades for the individual questions and the written examination shall be the sum of the correctly labeled answers.
- (3) Before determining the result of an examination, its questions shall be checked for errors with regard to the module’s requirements. Erroneous examination questions shall not be considered when determining the result of an examination. The reduced number of examination questions shall be taken into account when grading the examination. A candidate’s grade shall not suffer under a reduced number of examination

questions. Deducting points in individual examination questions or the examination as a whole shall not be permitted when grading a written examination. Offsetting wrong answers with correct answers shall also be prohibited.

(4) Examinations using the multiple choice model shall be considered passed when the candidate reaches a minimum of 50 percent of the total score or a score that does not fall below the average score reached by all candidates in this examination by more than 22 percent.

(5) Results in a multiple choice examination shall be graded as follows: If the candidate reaches the minimum score necessary to pass the examination as per para. 4, the grade shall be

1.0	Very good,	if 90 – < 100%	} of points above the necessary minimum score have been reached.
1.3	Very good,	if 80 – < 90%	
1.7	Good,	if 70 – < 80%	
2.0	Good,	if 60 – < 70 %	
2.3	Good,	if 50 – < 60%	
2.7	Satisfactory,	if 40 – < 50%	
3.0	Satisfactory,	if 30 – < 40%	
3.3	Satisfactory,	if 20 – < 30%	
3.7	Sufficient,	if 10 – < 20%	
4.0	Sufficient,	if 0 – < 10%	

Candidates who do not reach the minimum score necessary to pass the examination shall receive the grade “Insufficient” (5.0).

(6) Deviating from para. 1, written examinations that are resits may partly or entirely be conducted using the multiple choice model on the second examination date, even when not reaching the minimum number of registered candidates, provided that

- the resit examination is equal in level of expertise, difficulty and maximum score to the first written examination, and
- the first written examination and the resit examination are developed by the same examiner simultaneously, and
- the decision on which written examination is assigned for the first examination and which is assigned for the resit examination is made by drawing lots.

The resit examination shall be graded using the same grading scale as the one used for the first written examination; the pass score defined for the first written examination in accordance with para. 4 shall also apply to the resit examination. Examiners shall confirm in the record that the conditions as per sentence 1 are met.

(7) Should the examination include both multiple choice questions and other questions, the part using the multiple choice model shall be graded in accordance with paras. 2–6. All other questions will be graded following the normal procedure. The overall grade is calculated from the results of both parts, with each part weighted in relation to the share of achievable points in the examination. If one part of an examination is failed, this part shall be graded “Insufficient” (5.0) and taken into account as such when calculating the overall grade.

(8) Otherwise, § 16 shall apply accordingly.

## § 18 Oral examinations

(1) In oral examinations, candidates are to demonstrate sound knowledge in the subject of examination, identify correlations and analyze specific questions arising from these as well as provide possible solutions.

(2) Oral examinations shall be conducted by either a panel of several examiners (Kollegialprüfung) or a single examiner in the presence of a competent assistant examiner, with candidates being examined either individually or in a group. If the examination is conducted by a panel of several examiners, the candidate shall be examined by one examiner per subject of examination. This shall not affect the provisions set forth in § 13, para. 7. Each oral module examination shall last a minimum of 15 minutes and a maximum of 45 minutes per candidate. When candidates are examined in a group, each candidate within that group shall be examined for the same amount of time.

(3) Students who wish to take the same oral examination at a later date may be admitted to sit in on the examination, provided that spatial circumstances allow for it and no candidate objects to their presence. Admitting students to sit in is at the discretion of the examiner or, in case of a panel of several examiners, the panel chair. Students sitting in on an examination shall attend neither the discussion nor the announcement of results. They shall also be prohibited from taking notes during the examination.

(4) The examination board may, in conjunction with the examiner, decide that, instead of a specified oral examination, a written examination shall be held that covers the module's subject area. In accordance with § 8, para. 7 this shall be announced in due time before the beginning of the semester.

### **§ 19**

#### **Presentations and reports**

(1) Presentations are oral presentations that last a minimum of 10 minutes and a maximum of 45 minutes. Candidates demonstrate their ability to comprehensibly present and discuss their own documented research results raised using scientific methods. Candidates shall have one week to prepare a presentation after receiving the topic.

(2) Reports are summaries of individual scientific research in which candidates comprehensibly present the sequence and results of their work. Reports are based on notes, original scientific texts and individual research. Their layout, structure and scope (10–30 DIN A4 pages) shall reflect that of scientific publications. They must be completed within a period of 12 weeks after receiving the topic of the scientific research. Reports must, as a rule, be prepared and submitted by the end of the semester in which the associated course is offered.

(3) Otherwise, the provisions for grading oral and written examinations stipulated in § 13, para. 7 apply.

### Part 6

#### Master's thesis

### **§ 20**

#### **Registration, topic and scope of the master's thesis**

(1) The master's thesis is an examination in the form of a written assignment in which candidates are to demonstrate their ability to conduct research on, develop a solution for and appropriately present a problem from the field of the master's degree program "Medical Immunosciences and Infection" within a specified period of time, on their own authority and using scientific methods.

(2) Students must register their master's thesis with the examination board. Where justified, registrations may be submitted electronically. The examination board shall announce the deadline by which a master's thesis must be registered for the candidate to complete the master's degree program within the standard period of study.

- (3) When registering their master's thesis, students must indicate their choice of examiners for the master's thesis.
- (4) Any examiner may assign the topic for the master's thesis. As a rule, the examiner who assigned the topic also acts as supervisor of the master's thesis. Permission from the examination board shall be required when an external university professor who is active in research and teaching is to assign the topic for and supervise the master's thesis or when the candidate is to complete their thesis at a facility outside the University, which shall only be granted if appropriate supervision by an examiner can be assured.
- (5) The topic for the master's thesis shall only be issued when the student has acquired a minimum of 75 CP and has met all of the requirements stipulated in the module structure. The examination board shall issue the topic for the master's thesis. A record shall be kept of the topic and the date of issue. Prior to registration of the master's thesis, students shall be given the opportunity to submit proposals for the research area from which the topic of their master's thesis shall be taken; the examination board is not bound to such proposals. Upon request by the student, the examination board shall ensure that the student receives a topic for his/her master's thesis in due time.
- (6) Candidates may reject a master's thesis topic only once and only within the first two months after its issue. Rejecting a topic does not count as a failed attempt.
- (7) The master's thesis cannot be approved in the form of a group thesis.
- (8) The master's thesis shall contain a minimum of 30 and a maximum of 80 DIN A4 pages of text.
- (9) Passing the master's thesis awards 30 CP, corresponding to 900 hours in student workload. It must be completed within a maximum period of six months. The examination board shall determine the deadline by which the master's thesis must be submitted and notify the student of that deadline. Topic, task and scope of the master's thesis shall be limited in a way that candidates may complete it under reasonable requirements within the specified period. Upon valid request and in conjunction with the supervisor, the examination board may grant an extension by a maximum of six weeks. As a rule, the topic of the master's thesis is issued at the end of the third semester.

## **§ 21**

### **Submission, evaluation and repetition of the master's thesis**

- (1) Candidates shall submit their master's thesis in triplicate to the examination board by the specified deadline. A record shall be made of the time and date on which the particular master's thesis was submitted. Candidates may not withdraw an already submitted master's thesis. Master's theses that are not submitted by the stated deadline shall be graded "Insufficient" (5.0).
- (2) Candidates shall declare in writing when submitting their master's thesis that the particular thesis is their own work, that they used only those sources and resources cited in the thesis and that they have marked citations as such. The examination board can require that the candidate provide an affidavit to this effect and a digital version of the submitted master's thesis suitable for electronic evaluation.
- (3) Master's theses shall be evaluated and graded by two examiners. One of the examiners shall be the person who assigned the topic of the master's thesis; the second examiner shall be chosen by the examination board from among the group of examiners appointed in accordance with § 9, para. 1. Among these two examiners, at least one examiner must be a member of the group of university professors (Hochschullehrerinnen und Hochschullehrer) at the University of Bonn. The candidate shall be entitled to propose examiners but shall not have a right to being assigned a specific examiner.

- (4) The examiners shall each grade the master's thesis separately and provide the reasons for the grade they assigned in writing in accordance with § 25, para. 1. When the difference between the two grades is less than 2.0, they shall be averaged together for the final grade for the master's thesis. When the difference is 2.0 or more or one of the grades is "Insufficient", the examination board shall appoint a third examiner for review of the master's thesis. In this case, the two better grades shall be averaged together for the final grade. Grades shall be averaged in accordance with § 25, para. 5 and 6. A master's thesis may, however, only be awarded the grade "Sufficient" or higher when at least two of the individual grades were "Sufficient" or higher.
- (5) Examiners shall submit their reviews of the master's thesis within eight weeks after the submission deadline.
- (6) Candidates who receive the grade "Sufficient" or higher for their master's thesis are awarded 30 CP.
- (7) Master's theses graded "Insufficient" (5.0) or deemed failed may be repeated once. The topic of the second master's thesis may be chosen from the same area as the topic of the first master's thesis but must be substantially different in nature. The student may, however, only reject the proposed topic for their master's thesis in the manner specified in § 20, para. 6 if they did not make use of this option with their first master's thesis. Should the second master's thesis also be graded "Insufficient" (5.0), the candidate shall have failed their final attempt at the master's examination, losing their right to examination and being deregistered from the degree program by the Student Registry once the examination board's decision has come into force.

## Part 7

### Procedural irregularities and protective regulations

#### § 22

#### **Cancellation, default, withdrawal and reprimand**

- (1) Candidates may electronically cancel their registration (in the examination management system) for module examinations with the examination board until one week before the examination date at the latest; if this is not possible, cancellation can also be submitted in writing. The date of receipt by the examination board prevails.
- (2) If a candidate withdraws from an examination after the cancellation deadline without good cause, the examination is graded "Insufficient" (5.0). The same applies when a candidate fails to appear to an examination or to submit an assignment within the specified period of time (default).
- (3) Candidates who have registered for an examination but have good cause to withdraw from that examination, especially due to illness, may do so regardless of the cancellation deadline. The examination board shall be notified of such withdrawals immediately and in writing. Candidates shall immediately provide a written statement credibly substantiating the grounds for their withdrawal or default. In cases of illness, candidates shall present a medical certificate proving their inability to participate in the examination or, respectively, submit their assignment on time. Candidates who withdraw from a written examination due to illness after the start of the examination and assignment of the respective task must consult a medical examiner that same day of the examination to obtain a certificate proving their inability to continue the examination. The examination board may, in individual cases, require the submission of a certificate from a University medical examiner it designates if there are sufficient factual indications that the candidate would in fact have been able to participate in the examination or, respectively, submit their assignment on time or if the examination board deems other proof appropriate in that case. As a rule, it is not possible to withdraw from an examination after the start of the examination, especially when the candidate has already seen, or otherwise obtained knowledge of, the examination result. If the examination board accepts a medical

certificate allowing for withdrawal due to illness or other good cause given by the candidate, the examination attempt shall be deemed void.

(4) Candidates shall immediately reprimand any deficiencies related to an examination with the respective examiner or proctor. The reprimand shall be entered into the record and asserted in front of the examination board. If the examination board accepts the reprimand, the examination attempt shall be deemed void.

### **§ 23**

#### **Deception and disruption of examinations**

(1) Candidates who try to influence the outcome of an examination through deception or the use of inadmissible auxiliary means shall receive the grade "Insufficient" (5.0); the respective examiner or proctor shall identify deception or use of inadmissible auxiliary means, include it in the record and notify the examination board. The respective examiner or proctor may bar any candidate from continuing an examination who, despite a warning, disrupts the orderly conduct of the examination; in such cases, the examination shall be deemed failed and graded "Insufficient" (5.0). A record shall be made of the reasons for barring the candidate from the examination.

(2) Candidates may, within a period of two weeks, request that decisions taken pursuant to para. 1, sentences 1 and 2 be reviewed by the examination board.

(3) In cases of repeated or otherwise grave attempts at deception, the candidate may be deregistered from the degree program. The examination board shall determine whether the candidate's attempt at deception was repeated or otherwise grave. Deregistration of students due to deception is at the rector's discretion. Deregistration is carried out by the Student Registry.

(4) Violation of the provisions in these Examination Regulations regarding deception in examinations is an administrative offense. This administrative offense may be subject to a fine of up to EUR 50,000. As competent administrative authority, the provost of the University of Bonn shall pursue and fine administrative offenses pursuant to sentence 1.

### **§ 24**

#### **Protective regulations**

(1) On notification by the candidate, corresponding allowances shall be made for the time of maternity protection leave stipulated in the Maternity Protection Act (MuSchG) as amended. Necessary documentation shall be attached to the application. All time frames stipulated by these Examination Regulations shall be suspended by maternity protection leave; assessment time frames shall not include periods of maternity protection leave. The examination board shall notify the candidate of newly determined examination deadlines once all necessary proof has been submitted.

(2) Allowances shall likewise be made on application for parental leave under the Parental Allowance and Parental Leave Act (BEEG) as amended. Candidates shall notify the examination board in writing of the period(s) during which they wish to take parental leave, enclosing necessary substantiating documentation, at least four weeks prior to the date on which they wish to enter parental leave. The examination board shall determine whether the statutory requirements have been met which would lead to an employee being entitled to parental leave under the BEEG and shall inform the candidate immediately of its findings and, if applicable, any new examination deadlines. The time frames for the completion of examinations may not be interrupted by a period of parental leave. The assignment topics shall be deemed not issued. The candidate shall receive a new topic at the end of their parental leave.

(3) Allowances shall likewise be made on application for leave taken for the care of spouses, registered partners, direct relatives, second-degree indirect relatives or first-degree in-laws who are in need of care.

The examination board shall review whether the requirements defined by sentence 1 are met. The application is to be submitted as soon as these requirements are met. Relevant documentation shall be attached to the application. The examination board shall immediately notify the candidate of the result and, if applicable, of the new examination deadlines. Time frames for the completion of examinations may not be extended based on such leave taken. The assignment topics shall be deemed not issued. The candidate shall receive a new topic at the end of their leave.

Part 8  
Grading and final documentation

**§ 25**

**Grading of examinations, grading system and pass requirements for the master's examination**

(1) The grade for each examination shall be determined by the respective examiners. If the examination is conducted by more than one examiner, the grade shall be calculated using the average of the individual grades. Otherwise, § 13, para. 7 applies accordingly. The following grading system shall be used:

1	Very good	Excellent achievement
2	Good	Achievement well above average requirements
3	Satisfactory	Achievement corresponding to average requirements
4	Sufficient	Achievement that still meets necessary requirements despite deficiencies
5	Insufficient	Achievement that does not satisfy requirements due to substantial deficiencies

In order to produce a graduate grading scale and provide a more nuanced evaluation, individual grades may be raised or lowered by values of 0.3; grades 0.7, 4.3, 4.7 and 5.3 shall not be admissible.

(2) A module examination shall be deemed passed when the module is graded at least "Sufficient". If a module grade includes more than one examination component, it shall be calculated using the individual examination weights indicated in the module structure. This does not affect § 10, para. 3, sentence 4. The grading scale for modules is:

With an average grade up to and including 1.5	= Very good
With an average grade from 1.6 up to and including 2.5	= Good
With an average grade from 2.6 up to and including 3.5	= Satisfactory
With an average grade from 3.6 up to and including 4.0	= Sufficient
With an average of 4.1 or higher	= Insufficient

(3) Candidates shall be informed of the grades earned in written examinations within four weeks of the particular examination, and the grade awarded for their master's thesis within eight weeks at the latest following the submission deadline. In accordance with the applicable data protection regulations, results shall be made available by public display or in electronic form via the examination management system; as a rule, results are to be made available before the standard period of study ends.

(4) Candidates shall have passed the master's examination when they have passed all necessary module examinations as per § 4, para. 4 as well as the master's thesis with a grade of "Sufficient" or higher and a total of 120 CP has been awarded.

(5) The calculation of the overall grade shall include all graded modules. Each grade from individual modules shall be weighted by multiplying it with the number of credit points assigned to the respective module. The sum of these individually weighted module grades is then divided by the total number of credit

points for all graded modules (weighted average). Para. 2, sentence 4 applies accordingly. Deviating from this, the overall grade shall be “Excellent” if the overall grade is no lower than “Very good” (1.3) and the master's thesis has been graded “Very good” (1.0). Modules marked “pass” due to lack of comparability shall not be included when calculating the overall grade.

(6) Only the first decimal place after the decimal shall be used when calculating the grades for individual modules or for overall performance; all further decimal places shall be dropped without rounding off.

(7) The final attempt at the master’s examination shall be deemed failed when

- the candidate has three times failed to pass a module examination in a compulsory module as defined by § 10, para. 3, sentence 4, letter a or, respectively, § 15, para. 2,
- the compensation option for electives has been used without success as specified in § 15, para. 3, or
- the master's thesis has been graded “Insufficient” in the second attempt.

## **§ 26 Certificate**

(1) The candidate shall be notified of the results of their successful master’s examination in a provisional certificate as soon as all grades have been submitted. A certificate shall thereafter be issued in German. Candidates may also receive an English translation of their certificate on application. The certificate shall include the following information:

- All modules for which credit points were earned,
- The semester in which credit points were earned,
- The grades for the individual module examinations,
- The topic and grade of the master's thesis,
- The date of the last examination and
- The overall grade of the master’s examination.

Upon request by the candidate, the examination results for modules completed outside their standard scope of studies and the corresponding study credits (up to 15 CP) will be included in the certificate. These may be modules from the master’s degree program “Medical Immunosciences and Infection” as well as modules that cannot be recognized, but are offered in another degree program at the University of Bonn. Credit can only be granted for modules that are completed within one and a half times the standard period of study.

(2) The certificate shall state the date of issue. The certificate shall be stamped with the seal of the examination board and signed by the dean and chairperson of the examination board.

(3) Candidates who have or are deemed to have failed their final attempt at the master’s examination shall be issued a written notification thereof by the examination board, including information on legal remedies available.

(4) Students who leave the University without a degree shall, after deregistration and on application, be issued a transcript including a list of all completed course work and examinations. This transcript shall be limited to those parts of the student's course of study which were successfully completed. In addition, a notification may be issued on application that indicates which examinations the student did not pass or still needs to complete in order to pass the master’s examination.

## **§ 27 Master’s Diploma**

Along with the certificate of the master’s examination, candidates shall receive a Master’s Diploma issued the same day in German stating that the candidate has been awarded the academic degree as per § 3. The Master’s Diploma will be accompanied by an English translation. Master’s Diplomas shall be signed by the

dean of the Faculty of Medicine of the University of Bonn and by the chairperson of the examination board as well as stamped with the seal of the Faculty.

### **§ 28 Diploma supplement**

The Master's Diploma shall be augmented by a diploma supplement. The diploma supplement is a standard document in English and German that shall include the following information:

- Essential contents of the program underlying the degree,
- The course of studies,
- The competences acquired with the degree,
- Information on the accreditation of the degree program and
- Information on the university awarding the degree.

The diploma supplement shall give a relative classification of the overall grade of the master's examination on the ECTS grading scale.

### **§ 29 Access to examination records**

(1) Candidates shall, on application, be granted access to their written examinations; applications must be submitted within three months after notification of the examination result. The examination board shall notify the candidate of the period of access in due time. This does not affect § 29 of the Administrative Procedure Act (Verwaltungsverfahrensgesetz).

(2) The examination board shall determine the place and time of such access.

### **§ 30 Invalidity of the master's examination and revocation of the master's degree**

(1) Should it become known after the certificate has been issued that the candidate used deception in an examination or their master's thesis, the examination board may correspondingly correct the grades for those examinations or the thesis in which the candidate used deception as well as the overall grade and declare the entire master's examination or parts thereof failed.

(2) Should it become known after the certificate has been issued that the candidate had not met the requirements for admission to the master's examination, and should this have happened without any fraudulent intent on the part of the candidate, this defect shall be remedied by the candidate's successful completion of the examination. Should the candidate have wrongfully secured admission with intent, the examination board shall decide on the legal consequences in accordance with the Administrative Procedure Act.

(3) Candidates shall be heard before the examination board makes a decision.

(4) The incorrect certificate shall be withdrawn and, where applicable, a new certificate shall be issued. If one or more examinations are declared failed due to deception, the incorrect certificate also makes the Master's Diploma and all other graduation documentation void. Decisions pursuant to para. 1 and para. 2, sentence 2 may be taken only for a period of five years after the issue of the certificate.

(5) Should the master's examination be deemed altogether failed, the master's degree shall be suspended and the Master's Certificate, Master's Diploma as well as all other graduation documentation shall be withdrawn.

Part 9  
Entry into force

**§ 31**  
**Entry into force and publication**

These Examination Regulations shall enter into force on the day after their publication among the Official Announcements of the University of Bonn.

N. Wernert  
The Dean  
of the Faculty of Medicine  
of the University of Bonn  
Professor Dr. Nicolas Wernert

Executed pursuant to the resolution adopted by the faculty council of the Faculty of Medicine on May 25, 2017 and the resolution passed by the Rectorate on June 20, 2017.

Bonn, Friday, July 14, 2017

M. Hoch  
The Rector  
of the University of Bonn  
Professor Dr. Michael Hoch

## Annex 1: Module structure for the consecutive master's degree program "Medical Immunosciences and Infection"

### Module structure key

Abbreviations of course types: L = lecture, S = seminar, PC = practical course

Marked with asterisk (\*): Courses for which the examination board may, pursuant to § 13, para. 6, require compulsory attendance as prerequisite for participation in the module examination (field trips, language courses, lab courses and practical exercises as well as comparable courses). In these cases, compulsory attendance is an additional requirement to other listed course work.

The column "Duration/Study Semester" shows the duration of the module (in semesters) and assigns it to a specific study semester.

The column "Assessments" shows requirements that must be met for admission to certain examinations or to acquire credit points in modules without an examination.

The examination board may approve other elective modules. The examination board shall announce the approved elective modules before the beginning of the semester, pursuant to § 8, para. 7.

The examination board shall make further details on individual modules, especially regarding the courses offered within or required for completion of a module, available in a module guide before the beginning of the respective semester, pursuant to § 8, para. 7.

### 1st Academic Year - Compulsory Modules

Module Number/ Identifier	Module and Course Types in the Module	Admission Requirements	Duration (D) and Scheduled Study Semester (StS)	Subject (content) of Examination and Qualification Objective	Assessment	Type of Examination	Weighting	CP
LIMES-001	Methods in life sciences and statistics L	none	D: 1 sem. StS: 1st sem.	Theoretical knowledge of methodology in the life sciences and statistics	none	Written examination	3/120	3
Immuno-001	Immunology I L, E*, S*	none	D: 1 sem. StS: 1st sem.	Sound knowledge of the evolution, structure and function of the immune system and methodology of immunology	<sup>1</sup> none	Written examination	6/120	6
MedImmun-01	Infection I S*	none	D: 1 sem. StS: 1st sem.	Sound knowledge of bacteriology, virology and parasitology	<sup>1</sup> none	Written examination	8/120	8
MedImmun-02	Clinical Immunology and Immunopharmacology I S*	none	D: 1 sem. StS: 1st sem.	Sound knowledge of organs and organ systems, immune-mediated diseases and the diagnostic and treatment possibilities	<sup>1</sup> none	Written examination	10/120	10

Module Number/ Identifier	Module and Course Types in the Module	Admission Requirements	Duration (D) and Scheduled Study Semester (StS)	Subject (content) of Examination and Qualification Objective	Assessment	Type of Examination	Weighting	CP
MedImmun-03	Research Ethics and Scientific Writing L, S*, PC*	none	D: 1 sem. StS: 2nd sem.	Students gain advanced knowledge on the preparation of scientific publications and research ethics	none	Presentation  Scientific writing,  Written examination  Research ethics	4/120	4
MedImmun-04	Immunology II L, E*, S*	none	D: 1 sem. StS: 2nd sem.	Sound knowledge of immune reactions and the methodology of immunology	1 none	Written examination	6/120	6
MedImmun-05	Clinical Immunology and Immunopharmacology II S*	none	D: 1 sem. StS: 2nd sem.	Sound knowledge of tumor immunology, autoimmunity, transplantation, regeneration and translational immunology	<sup>1</sup> none	Written examination	10/120	10
MedImmun-06	Infection II S*	none	D: 1 sem. StS: 2nd sem.	Sound knowledge of infectious diseases, hygiene and the treatment of infections	<sup>1</sup> none	Written examination	8/120	8
MedImmun-07	Regulations and legal aspects in medical sciences L	none	D: 1 sem. StS: 2nd sem.	Sound knowledge of relevant laws and regulations in the medical sciences	none	Written examination	2/120	2

<sup>1</sup> For admission to module examinations in modules Immuno-001 and MedImmun-04, MedImmun-01 and MedImmun-06, MedImmun-02 and MedImmun-05, one seminar talk per module pair must be held in at least one of these modules. The examination board shall determine the details.

**1st Academic Year – Elective Modules (1 of 5 Elective Modules)**

Module Number/ Identifier	Module and Course Types in the Module	Admission Requirements	Duration (D) and Scheduled Study Semester (StS)	Subject (content) of Examination and Qualification Objective	Assessment	Type of Examination	Weighting	CP
MedImmun-10	Klinische Chemie und Hämatologie L	none	D: 1 sem. StS: 1st sem.	Hematology and laboratory diagnostics	none	Written examination	0/120	3
MedImmun-11	Klinische Prüfung von Arzneimitteln L	none	D: 1 sem. StS: 1st sem.	Scientific and legal aspects of clinical trials for medicinal products	none	Written examination	0/120	3
MedImmun-12	Developmental Neurobiology, Stem Cells and Neuroregeneration L	none	D: 1 sem. StS: 1st/2nd sem.	Development of the nervous system, neuropathology and neural stem cells	none	Written examination	0/120	3
MedImmun-13	Cellular Neurobiology of Disease L	none	D: 1 sem. StS: 1st sem.	Cellular foundations of neurological and neuroimmunological diseases	none	Written examination	0/120	3
MedImmun-14	Anatomie für Pharmazeuten L	none	D: 1 sem. StS: 1st sem.	Relevant anatomical knowledge for pharmacists	none	Written examination	0/120	3

**2nd Academic Year - Compulsory Modules**

Module Number/ Identifier	Module and Course Types in the Module	Admission Requirements	Duration (D) and Scheduled Study Semester (StS)	Subject (content) of Examination and Qualification Objective	Assessment	Type of Examination	Weighting	CP
MedImmun-08	Research project I  PC*, S*	Min. 45 CP earned	D: 1 sem. StS: 3rd sem.	Conduct an independent research project in the area of immunology, immunopharmacology, infection (virology) or infection (microbiology)	Presentation, animal experiment course <sup>2</sup>	50% Oral examination 50% Written protocol	15/120	15
MedImmun-09	Research project II  PC*, S*	Min. 45 CP earned	D: 1 sem. StS: 3rd sem.	Conduct an independent research project in one of the areas not covered by MedImmun-08.	Presentation, animal experiment course <sup>2</sup>	50% Oral examination 50% Written protocol	15/120	15

<sup>2</sup> Attendance in the animal experiment course is mandatory if the research project involves animal experimentation. Students can choose between a variety of research projects in the MedImmun-08 and MedImmun-09 modules.

**Master's thesis**

Module Number/ Identifier	Module and Course Types in the Module	Admission Requirements	Duration (D) and Scheduled Study Semester (StS)	Subject (content) of Examination and Qualification Objective	Assessment	Type of Examination	Weighting	CP
MedImmun-MA	Master's thesis	Min. 75 CP	D: 1 sem. StS: 4th sem.	Students will independently conduct and document a scientific research project	Attendance in at least 15 scientific talks <sup>3</sup> in the area of medical research, final presentation	Master's thesis	30/120	30

<sup>3</sup> By visiting scientists, e.g. in the Cluster of Excellence, or by Collaborative Research Centers; this can be achieved in the first and subsequent semesters.

**Annex 2: Regulations for admission to courses**

If admission to a course, due to its nature, purpose or to other reasons, needs to be limited and the number of registrations exceeds the defined capacities, it is handled as follows:

Applicants shall be admitted in the following order:

- **Group 1:**

Students who are enrolled at the University of Bonn, for whom, according to the curriculum, participation in this course is mandatory and who are in the same or a higher study semester as/than the one specified for participation in the curriculum, provided they

- a. were kept from registering for the course due to a delay in the first semester, or
- b. were not selected in a random selection procedure at least once in the past;

- **Group 2:**

Students who are enrolled at the University of Bonn and who are in the same or a higher study semester as/than the one specified for participation in the curriculum, and who do not belong to Group 1;

- **Group 3:**

All other students enrolled at the University of Bonn who are eligible for participation in this course pursuant to the curriculum;

- **Group 4:**

All other students.

This does not affect further admission requirements. Within the groups – except Group 4 – students who have collected the largest number of credit points for this degree program or for another degree program at the University of Bonn that imports modules from this degree program shall have priority. Remaining places are allocated by drawing lots.