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Faculty of Mathematics and Computer Science:

Following the resolution of the Faculty Council of the Faculty of Mathematics and Computer Science dated 31.05.2023 the Presidential Board of the Georg-August-Universität Göttingen approved the fourteenth amendment of the examination and study regulations for the consecutive Master's degree programme "Applied Computer Science" on 26.06.2023 in the version published on 08.11.2011 (Official Announcements I no. 16/2011 S. 948) last amended by decision of the Presidential Board on 29.07.2022 (Official Announcements I no. 37/2022 p. 732); approved (§ 44 section 1 sentence 2 NHG in the version published on 26.02.2007 (Nds. GVBl. p. 69), last amended by Article 7 of the Act 23.03.2022 (Nds. GVBl. p. 218; § 37 section 1 sentence 3 no. 5 b) NHG; § 44 section 1 sentence 3 NHG).

Examination and study regulations for the consecutive Master's degree programme "Applied Computer Science" of the University of Göttingen

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§ 1 Scope

(1) The "General examination regulations for Bachelor's and Master's degree programmes as well as other courses and degrees offered at the University of Göttingen" (APO) shall apply as amended to the consecutive Master's degree programme "Applied Computer Science" at the University of Göttingen.

(2) This regulation specifies the further provisions for the completion of the course of studies in the consecutive Master's degree programme "Applied Computer Science".

§ 2 Objectives of the academic programme, purpose of the examination; academic degree

(1) The programme prepares students for independent scientific work as Computer Scientists in companies, administration and research institutions.

(2) ¹In the Master's degree programme, students learn to scientifically penetrate the subject and its applications and to further develop scientific methods and findings. ²The degree programme also forms the basis for being accepted into a doctoral programme in the field of Computer Science.

(3) ¹The Master's programme is research-oriented. ²Students are integrated into research projects; these must be in the field of Computer Science or Applied Computer Science.

(4) Examinations during the Master's programme determine whether the person to be examined has acquired the skills and methods of the subject as well as key competencies necessary for the study objectives.

(5) After passing the master's examination, the University of Göttingen awards the academic degree "Master of Science" (abbreviated "M. Sc.").

§ 3 Recommended prerequisites

¹Sound knowledge of English and mathematics is recommended for a qualified Master's course of study. ²Students whose knowledge of English or mathematics was not better than satisfactory in the course of their first studies are recommended to participate in continuous education courses accordingly before taking up the Master's programme.

§ 4 Individual advice on the course of study

¹In order to ensure a meaningful course of study, students are advised to contact potential future supervisors at least one year before beginning their master's thesis. ²All individuals with general examination authorization within the chosen field of study are available as individual advisors.

§ 5 Structure of the academic programme; duration of study; specialisations; study abroad

(1) The academic programme begins in the summer and winter semester.

(2) The standard period of study is four semesters.

(3) The academic programme is suitable for part-time study.

(4) ¹The course of study comprises 120 credits (ECTS credits, abbreviated: C), which are distributed as follows:

- a) 24 C for the specialised studies,
- b) to the professionalisation area 66 C, including key competencies amounting to at least 12 C,
- c) 30 C for the master's thesis.

²An overview of the study structure is given in appendix I. ³The module catalogue which also contains the module overview in the sense of § 4 section 1 sentence 1 APO, is published separately; it is an integral part of these Examination and Study Regulations. ⁴A recommendation for the appropriate structure of the study programme can be found in the sample curricula attached in appendix II.

(5) ¹In the core curriculum, students acquire in-depth knowledge in system oriented computer science, which forms the scientific basis for acquiring the ability to apply and further develop the specialised methods of the subject in the professionalisation. ²It is recommended to orient the core curriculum with regard to the intended specialisation.

(6) ¹The professionalisation area serves the students' profiling by focusing on a specialisation. ²In this way, the professionalisation area offers students the opportunity to profile themselves according to individual and subject-specific inclinations and career aspirations and to acquire key competencies specific to their profession and across subjects.

(7) ¹The area of professionalisation is divided into specialisations for a total of at least 48 C, of which one must be chosen. ²The choice of a specialisation also implies one of two study profiles:

a) System related profile:

- Specialisation „Application-oriented system development“,
- Specialisation „Application-oriented systems development with a specialisation in Bioinformatics“,
- Specialisation „Application-oriented systems development with a specialisation in Geoinformatics“,
- Specialisation „Application-oriented systems development with a specialisation in Ecological Informatics“,
- Specialisation „Application-oriented systems development with a specialisation in Medical Informatics“,
- Specialisation „Application-oriented systems development with a specialisation in Law and Computer Science“,
- Specialisation „Application-oriented systems development with a specialisation in Business Information Systems“,
- Specialisation „Application-oriented systems development with a specialisation in Scientific Computing“,

- Specialisation „Application-oriented systems development with a specialisation in Computational Neuroscience“,
- Specialisation „Application-oriented systems development with a specialisation in Digital Humanities“,

b) Application area related profile:

- Specialisation „Bioinformatics“,
- Specialisation „Geoinformatics“,
- Specialisation „Ecological Informatics“,
- Specialisation „Medical Informatics“,
- Specialisation „Law and Computer Science“,
- Specialisation „Business Information Systems“,
- Specialisation „Scientific Computing“,
- Specialisation „Computational Neuroscience“,
- Specialisation „Digital Humanities“,
- Specialisation „Data Science“.

³The module overview regulates the details. ⁴The choice of a specialisation requires participation in a compulsory study counselling according to § 15 section 3.

(8) ¹If proof of certain subject-related knowledge and skills (admission requirements) is required for admission to a specialisation, the examination board may allow individual of these admission requirements to be made up for during the course of study. ²In this case, the student shall be required to provide evidence of the prerequisites within a certain period of time. ³Admission to the specialisation is excluded if the scope of the achievements according to sentence 1, which have not yet been completed, amounts to more than 15 credits.

(9) ¹If an examination-related achievement can be taken into account in the context of several module examinations, the examination registration must state for which module examination the examination-related achievement is being taken. ²The same examination-related achievement cannot be taken into account in the context of another module examination.

(10) Modules and examination-related achievements that have been completed for the core curriculum cannot be taken into account in the professionalisation area, and vice versa.

(11) ¹As a rule, the second and third semesters are suitable for a study period abroad. However, due to individual study plans, other semesters may also be suitable; details must be discussed with the person responsible for the specialisation with the involvement of the mentor. ²Achievements acquired abroad are recognised within the framework of the regulations of the General Examination Regulations for Bachelor's and Master's degree programmes and other courses offered at the University of Göttingen. It is strongly recommended that a "learning agreement" is concluded before the start of the planned stay abroad.

§ 6 Examination board

(1) ¹The examination board consists of five voting members, namely the Dean of Studies as well as two members of the professors' group [Hochschullehrergruppe], one member of the academic staff group [Mitarbeitergruppe] and one member of the students group [Studierendengruppe], who are appointed by the respective group representatives in the Faculty Council of the Faculty of Mathematics and Computer Science. ²At the same time, at least one deputy shall be appointed for each member.

(2) The examination board shall elect a chairperson and a deputy chairperson from the voting members of the professors' group [Hochschullehrergruppe].

§ 7 Representatives of specialisations

(1) ¹For each specialisation, the Dean of Studies shall appoint a representative from among the teaching staff involved in the specialization. ²This appointee shall be responsible for ensuring the courses offered in his or her area of application, without prejudice to the responsibility of the Dean of Studies.

(2) Representatives for a specialisation shall be heard before a decision is made on the crediting of study periods, course- and examination-related achievements in their specialisation.

(3) ¹Specialisation representatives are responsible for assigning courses to modules in their specialisation. ²This includes passing on this information to the Dean of Studies. ³Representatives for a specialisation also coordinate the examination periods for their specialisation.

§ 8 Admission to courses with limited number of seats

(1) ¹For admission to courses (e.g. modules, lectures and seminars) with a limited number of seats, in the event that there are more applications than seats available and no identical parallel courses can be offered, applications will be considered according to ranking groups in the following order:

- a. Registration of students for whom the course is a compulsive or elective compulsive course;
- b. Registration of students for whom the course is an elective course;
- c. Registration of students in other programmes who are entitled to attend the course as part of the area of professionalisation;
- d. Registration of students who wish to take the course as an additional course;
- e. Other registrations of students.

²Repeating an examination for the purpose of improving grades in accordance with § 10 falls under e. "Other registrations of students".

(2) ¹Students who are about to complete their academic studies or who are in the respective semester for which the course is offered will be given precedence within the individual ranking groups according to section 1; students, who for reasons not attributable to themselves, were unable to receive a seat in the previous semester will be given the same precedence. ²In the event of ranking

parity, precedence will be given to students for whom the enrollment to the course is a requirement for attendance in another course in their degree programme or the module package. ³The date of registration and then a lottery will be decisive in cases of rank parity.

(3) ¹If not all students of the ranking groups according to section 1 letters a. to c. can be considered for the course in one semester, the Faculty of Mathematics and Computer Science shall determine a sufficiently higher number of seats for the next semester within the scope of the personnel and material possibilities. ²This shall not apply in the event that the expected number of participants will most probably permit consideration of the students assigned to ranking groups as specified in section 1 letters a. to c.

§ 9 Subject-specific forms of examination

(1) In addition to the examinations permitted under the provisions of the APO, the following subject-specific examinations may be organised: Take-home examination.

(2) ¹In a take-home examination (THK), students work independently on a task at a location of their choice. ²Students can choose the time or times at which they work on the assignment within a previously announced period (usually one week). ³The amount of time required to complete the thesis is calculated according to the workload. ⁴The THK is either made available for download at the beginning of the completion period and then submitted electronically or completed online during the completion period (e.g. via learning platforms such as ILIAS). ⁵All aids used for the assignment must be indicated or cited; participants must declare in text form that they have completed the THK independently without the help of third parties or the use of unauthorised aids. ⁶The assignment is not limited to text production, but may include other tasks such as the creation of programme code, software packages, containers or workpieces. ⁷Further details can be found in the module description.

§ 10 Repeatability of examinations to improve grades

(1) ¹In the Master's degree programme "Applied Computer Science", module examinations with module numbers B.Inf.[number] and M.Inf.[number] passed in the standard period of study can each be repeated once for the purpose of improving the grade. ²The grade cannot be lowered as a result of the repetition.

(2) Module examinations may be repeated during the course of study, provided that the deadlines specified in § 14 section 2 are not exceeded as a result.

§ 11 Language of examination

- revoked -

§ 12 Admission to the master's thesis

(1) As a precondition for admission to the master's thesis, students must successfully complete modules totaling at least 48 C, including at least 24 C each from the core curriculum and the specialisation.

(2) ¹A written application for admission to the master's thesis must be submitted to the examination board responsible. ²In this, following documents must be enclosed:

- a) The proposal of topic for the master's thesis,
- b) a proposal for the first academic advisor and the second academic advisor,
- c) a written confirmation of the first academic advisor and the second academic advisor,
- d) a declaration specifying that the master examination has not been failed definitively or registered as definitively failed in the same or a comparable master's degree programme at a domestic or foreign university,
- e) Evidence of fulfilment of the prerequisites in accordance with section 1.

³The proposals under letters a), b) and c) are unnecessary if the student provides assurance that he or she has been unable to find an academic advisor. ⁴In the event that the student is unable to find an academic advisor, the examination board will assign an academic advisor and a topic. ⁵The candidate's view must be considered in choosing the topic.

(3) ¹The examination board decides on the admission. ²This should be rejected if the qualifications for entry are not fulfilled or the master examination in the same or similar master's degree programme at a domestic or foreign university has been definitively failed or regarded as definitive failing.

§ 13 Master's thesis

(1) The topic of the master's thesis must be related to computer science or applied computer science as well as to the chosen specialisation.

(2) In the master's thesis, the candidate is expected to prove that he or she is capable of working on a problem from the chosen specialisation, of using scientific methods of the subject and within the specified time frame, of developing an independent scientifically based judgment, arriving at scientifically substantiated results and presenting the results in a formally as well as linguistically appropriate manner.

(3) - Rescinded -

(4) ¹The provisional topic of the master's thesis is to be agreed upon with the proposed first supervisor and submitted to the responsible examination board with a confirmation of the proposed second supervisor. ²If the candidate does not find a supervisor, the supervisor and a topic shall be determined by the responsible examination board. ³The candidate shall be heard in the selection of the topic. ⁴The right to propose a topic does not constitute a legal claim. ⁵The topic of the master's thesis shall be issued by the Examination Office. ⁶The time of issue must be recorded.

(5) ¹The time to complete the thesis is 6 months. ²Upon application by the candidate, the examination board can extend the deadline for submitting the thesis by a maximum of four weeks in the event of an important reason that cannot be attributed to the candidate. ³An important reason normally exists in the case of an illness that is to be given notice of immediately and demonstrated by producing a medical certificate.

(6) ¹The topic can be returned only once and only within the first 2 weeks of the time allotted for completing the thesis. ²A new topic must be agreed on without delay, at the latest within 6 weeks. ³In the event that the master's thesis is repeated, the topic may be returned only in accordance with sentence 1 if the examinee has not resorted to this option in the first submission of the master's thesis.

(7) ¹The master's thesis must be submitted to the responsible examination office in due time and exclusively in PDF/A-1 according to ISO 19005-1:2005 or PDF/A-2 according to ISO 19005-2:2011, PDF/A-2 is recommended; data supplementing the master's thesis (e.g. programme code, measured values) are to be submitted compressed as one file in ZIP format. ²Students who credibly demonstrate that this is not reasonable for them will be supported by the university. ³The time of submission should be recorded. ⁴Upon submission, the candidate should declare that he or she has independently compiled the work and has not used any sources and tools other than those specified.

(6) ¹The Examination Office shall forward the master's thesis to the first supervisor and second supervisor as reviewers. ²Each reviewer will award a grade. ³The duration of the assessment procedure should not exceed 6 weeks.

§ 14 Overall result; preemptory failure

(1) The master examination is passed if at least 120 credits have been acquired and all of the required module examinations as well as the master's thesis have been passed.

(2) In addition to the cases specified in the APO, the right to take examinations is definitively extinguished if

- a) at least 60 C have not been acquired from modules of this degree programme by the end of the second semester after the end of the standard period of study, or
- b) not all credits required to pass the master's examination have been acquired by the end of the sixth semester after the end of the standard period of study;

In this case, the stipulations according to § 15 section 3 sentence 4 are binding.

²In the course of an academic year for which part-time study within the meaning of the regulations on part-time study in the currently valid version has been granted, a deadline in accordance with sentence 1 is only exceeded if it would have been exceeded even after deduction of a reduction in the number of semesters of study that is expected due to the part-time study programme.

(3) ¹Exceeding the deadlines specified in section 2 is permissible if the student is not responsible for exceeding the deadline. ²The examination board shall decide on this upon application by the student.

(4) Graded modules in the elective area of interdisciplinary key competencies will not be included in the calculation of the grade point average of the master examination.

(5) The grade point average "with distinction" will be awarded if the master's thesis is graded 1.0 and the grade point average of the master examination is at least 1.2.

§ 15 Study advisory service; compulsory study advisory

(1) ¹General advising for students is provided by the Central Office of Student Affairs of the University of Göttingen. ²It covers questions regarding the eligibility and admissions for a course, study opportunities as well as the structure of studies.

(2) The student advisor of the Department of Computer Science is responsible for general subject guidance. ²He supports the students in particular in questions of study design, study techniques and the choice of a specialisation as well as in overcoming study difficulties.

(3) ¹Before choosing a specialisation, it is recommended that students attend a study counseling session with the relevant specializations representative. ²The purpose of the study counseling session is to agree on a personal study plan based on the options specified in the module overview. ³The personal study plan is intended to ensure that the major can be completed within the standard period of study and that a coherent competence profile is acquired in line with the objectives of the program. ⁴It is also recommended that this study plan be coordinated with the future supervisors of the master's thesis in an individual consultation in accordance with § 4 and adjusted if necessary.

§ 16 Entry into force; interim regulations

(1) This regulation enters into force following publication in the Official Announcements of the Georg-August-Universität Göttingen as per 01/10/2011.

(2) ¹Students who commenced their studies before an amendment to these examination and study regulations came into force and who were continuously enrolled in the Master's degree programme "Applied Computer Science" at the University of Göttingen without interruption will be examined on the basis of the examination regulations in the version published on 22/09/2006 (Official Announcements no. 20/2006 p. 1702) as well as the supplementary study regulations for the Master's degree programme "Applied Computer Science" at the University of Göttingen in the version of the announcement of 22/09/2006 (Official Announcements no. 21/2006 p. 1800). ²In the case of examinations still to be taken, this shall not apply to the module overview, module catalogue and module handbook, unless the protection of a student's confidence requires a deviating decision by the examination board. ³A deviating decision is possible in particular in cases in which a module examination can be repeated or a compulsory or required elective compulsory module has been substantially changed or cancelled. ⁴The examination board may make general regulations in this regard. ⁵Students in accordance with sentence 1 shall, upon application, be examined as a whole in accordance with the provisions of these regulations.

(3) An examination according to the examination regulations for the Master's degree programme "Applied Computer Science" at the University of Göttingen in the version published on 22/09/2006 (Official Announcements no. 20/2006 p. 1702) as well as the supplementary study regulations for the Master's degree programme "Applied Computer Science" at the University of Göttingen in the version published on 22/06/2006 (Official Announcements no. 21/2006 p. 1800) will be held for the last time in the winter semester 2014/15.

(4) Notwithstanding the provisions of sections 2 and 3, the examination regulations for the Master's degree programme "Applied Computer Science" at the University of Göttingen in the version published on 22/09/2006 (Official Announcements no. 20/2006 p. 1702) as well as the study regulations for the Master's degree programme "Applied Computer Science" at the University of Göttingen in the version published on 22/09/2006 (Official Announcements no. 21/2006 p. 1800) shall cease to be in force when these examination and study Regulations come into force.

(5) ¹Students who commenced their studies before an amendment to these examination and study regulations came into force and who were continuously enrolled in the Master's degree programme "Applied Computer Science" shall, upon application, be examined according to the examination and study regulations in the version valid before the amendment came into force; the application shall be submitted within one semester after the amendment came into force. ²If, upon application pursuant to sentence 1, the examination and study regulations in the version applicable before the amendment came into force are to be applied, this shall not apply to the module overview and descriptions in the case of examinations still to be taken, unless the protection of a student's legitimate expectations requires a different decision by the examination board. ³A deviating decision is possible in particular in cases in which a module examination can be repeated or a compulsory or required elective compulsory module has been substantially changed or cancelled. ⁴The examination board may make general regulations in this regard. ⁵Students in accordance with sentence 1 shall, upon application, be examined as a whole in accordance with the provisions of these regulations.

Appendix I: Overview of the structure of the degree programme

Core curriculum	24 C	
Professionalisation	66 C	<p>Specialisation (at least 48 C)</p> <ul style="list-style-type: none"> • Application-oriented system development, possibly with a specialization in one of the applied computer sciences • Bioinformatics • Geoinformatics • Computer Science of Ecosystems (Ecological Informatics) • Medical Informatics • Law and Computer Science • Business Information Systems • Scientific Computing • Neuroinformatics (Computational Neuroscience) • Digital Humanities • Data Science <p>Key competencies (at least 12 C)</p> <p>Elective modules (up to 6 C)</p>
Master's thesis	30 C	
Master (4 Semesters)	120 C	

Appendix II: Sample curricula

1. Specialisation “Bioinformatics“

Sem. Σ C	Core Curriculum (24 C) and Elective modules (6 C)			Specialisation (48 C) Master's thesis(30 C)			Key competences (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 29 C	M.Inf.1114 Algorithms on Sequences 5 C	B.Inf.1237 Deep Learning for Computer Vision 6 C		M.Inf.1505 Models and Algorithms in Bioinformatics 6 C	M.CoBi.572 Biology for Bioinformaticians 8 C	M.CoBi.541 Bioinformatics and its areas of application 4 C		
2. SuSe Σ 32 C	M.Inf. 1238 Scalable Computing Systems and Applications in AI, BigData and HPC 5C	M.Inf.1829 Praktikum High- Performance Computing 6C	Extension High- Performance Computing (EHPC) 3 C	M.Bio.310 Systems biology 12 C	B.Bio-NF.129 Genetics and microbial cell biology 6 C			
3. WiSe Σ 29 C	M.Inf.1138 Usable Security and Privacy 5 C			M.Inf.1202 Advanced Research Training - Bioinformatics 12 C			M.Inf.1809 Profession-specific KC in research- related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. SuSe Σ 30 C				Master's thesis 30				

2. Specialisation “Medical Informatics“

Sem. Σ C	Core Curriculum (24 C) and Elective modules (6 C)		Specialisation (48 C) Master's thesis(30 C)					Key competences (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 30 C	M.Inf.1114 Algorithms on Sequences 5 C	M.Inf.1138 Usable Security and Privacy 5 C	M.Inf.1306 Market Analysis 9 C	M.Inf.1351 Work Methods in Health Research 5 C	M.Inf.1308 Journal Club 3 C	M.Inf.1355.1 IT-Management Techniques in Health Care 4 C	M.Inf.1356 Infrastructures for Clinical Research 9 C		
2. SuSe Σ 28 C	B.Inf.1250 Deep Learning for Natural Language Processing 9 C			M.Inf.1205 Advanced Research Training (small scale) – Health Informatics 6 C		M.Inf.1355.2 IT-Management Techniques in Health Care 3 C			
3. WiSe Σ 3 C	M.Inf.1194 Seminar Privacy in Data Science 5 C	M.Inf.1236 High-Performance Data Analytics 6 C		M.Inf.1307 Current Topics in Medical Informatics 6 C		M.Inf.1355.3 IT-Management Techniques in Health Care 3 C		M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. SuSe Σ 30 C			Master's thesis 30 C						

3. Specialisation “Computer Science of Ecosystems (Ecological Informatics)“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)			Specialisation (48 C) Master's thesis (30 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. SuSe Σ 30 C	B.Inf.1236 Machine Learning 6 C	M.Inf.1141 Semi-structured Data and XML 6 C	M.Inf.1161 Image analysis and understanding 6 C	M.FES.121 Advanced Data Analysis with R 6 C	M.FES.123 Functional-Structural Plant Models 6 C			
2. WiSe Σ 27 C	M.Inf.1232 Parallel Computing 6 C			M.FES.111 Introduction to Ecological Modelling 6 C	B.Forst.1110 Silviculture 9 C	M.FES.114 Ecosystem-Atmosphere Processes 6 C		
3. SuSe Σ 33 C	M.Inf.1808 Practical Course on Parallel Computing 6 C			M.Inf.1204 Computer science of ecosystems in a research-related project work 12 C	M.Forst.1115 Silviculture - Exercises 3 C		M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. WiSe Σ 30 C				Master's thesis 30 C				

4. Specialisation “Law and Computer Science “

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)		Specialisation (48 C) Master's thesis (30 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module
1. SuSe Σ 33 C	B.Inf.1244Data Management for Data Science 5 C	M.Inf.1195 Seminar Human in the Age of Artificial Intelligence 5 C	S.RW.1137 Intellectual property law II (industrial property rights) 6 C	S.RW.0113K Basic course II in civil law 9 C	S.RW.0313 Constitutional Law II 8 C		
2. WiSe Σ 28 C	M.Inf.1142 Semantic Web 6 C	M.Inf.1102 Extended Practical Course on Modelling 9 C	S.RW.1139 Intellectual property law I (copyright) 6 C	S.RW.0211K Constitutional Law I 7 C			
3. SuSe Σ 29 C		M.Inf1291 Advanced Topics in Computer Security and Privacy 5 C	S.RW.2410 Seminar E-Commerce-Law and regulation 12 C			M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. WiSe Σ 30 C			Master's thesis 30 C				

5. Specialisation “Business Information Systems“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)			Specialisation (48 C) Master's thesis (30 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. SuSe Σ 30 C	B.Inf.1231 Infrastructures of Data Science 6 C	B.Inf.1236 Machine Learning 6 C		M.WIWI- WIN.0003 Information management 6 C	M.WIWI- WIN.0002 Integrated user systems 6 C	M.WIWI- BWL.0001 Sustainable Finance 6 C		
2. WiSe Σ 30 C	M.Inf.1142 Semantic Web 6 C	M.Inf.1236 High Performance Data Analytics 6 C	B.Inf.1248 Language as Data 6 C				M.Inf.1824 Practical Course on Computer Security and Privacy 6 C	M.Inf.1822 Practical Course in Data Fusion 6 C
3. SuSe Σ 30 C				M.WIWI- WIN.0005 Seminar on business informatics 12 C	M.WIWI- BWL.0059 Project studies 18 C			
4. WiSe Σ 30 C				Master's thesis 30 C				

6f. Specialisation “Scientific Computing“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)		Specialisation (48 C) Master’s thesis (30 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 33 C	M.Inf.1232 Parallel Computing 6 C	M.Inf.1236 High-Performance Data Analytics 6 C	B.Mat.3134 Introduction to Optimisation 9 C	B.Phy.1551 Introduction to Astrophysics 8 C	B.Phy.1531 Introduction to Materials Physics 4 C		
2. SuSe Σ 27 C	B.Inf.1236 Machine Learning 6 C	M.Inf.1829 Practical course - High- Performance Computing 6 C	B.Mat.3031 Scientific computing 6 C	B.Mat.3334 Advances in Optimisation 9 C			
3. WiSe Σ 30 C	M.Inf.1824 Practical Course on Security and Privacy 6 C		M.Inf.1208 Scientific computing in research-related project work 12 C			M.Inf.1809 Profession-specific KC in research- related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research- related project work 6 C
4. SuSe Σ 30 C			Master’s thesis 30 C				

7. Specialisation “Neuroinformatics (Computational Neuroscience)”

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)		Specialisation (48 C) Master’s thesis (30 C)				Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 32 C	M.Inf.1113 Specialisation in Theoretical Computer Science 5 C	M.Inf.1111 Seminar Theoretical Computer Science 5 C	B.Phy.5651 Advanced Computational Neuroscience 3 C	M.Phy.5601 Seminar Computational Neuroscience/ Neuroinformatics 4 C	B.Phy.5601 Theoretical and Computational Neuroscience I 3 C	B.Phy.1571 Introduction to Biophysics 6 C	M.Inf.1824 Practical Course on Computer Security and Privacy 6 C	
2. SuSe Σ 28 C	B.Inf.1236 Machine Learning 6 C	M.Inf.1102 Extended Practical Course on Modelling 9 C		M.Inf.1185 Sensor Data Fusion 5 C	B.Phy.5602 Theoretical and Computational Neuroscience II 3 C	M.Inf.2541 Current Topics in Computational Neuroscience 5 C		
3. WiSe Σ 30 C	M.Inf.2242 Journal Club Machine Learning and Computational Neuroscience 5 C		M.Inf.1209 Neuroinformatics in research-related project work 10 C			M.Inf.2201 Probabi- listic Machine Learning 9 C	M.Inf.1809 Profession- specific KC in research-related project work 6 C	
4. SuSe Σ 30 C			Master’s thesis 30 C					

8. Specialisation “Application-oriented systems development with a specialisation in Bioinformatics“

Sem. Σ C	Core curriculum (24 C) Master's thesis (30 C)			Specialisation (48 C) and Elective modules (6 C)				Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 29 C	M.Inf.1114 Algorithms on Sequences 5 C			M.Cobi.572 Biology for Bioinformaticians 8 C	M.CoBi.541 Bioinformatics and its areas of application 4 C	M.Inf.1232 Parallel Computing 6 C	M.Inf.1505 Models and Algorithms in Bioinformatics 6 C		
2. SuSe Σ 29 C	M.Inf. 1238 Scalable Computing Systems and Applications in AI, BigData and HPC 5 C	M.Inf.1829 Practical course High- Performance Computing 6 C	M.Inf.1834 Extension High- Performance Computing (EHPC) 3 C	M.Bio.310 Systems biology 12 C	M.iPAB.0014 Data Analysis with R 3 C				
3. WiSe Σ 32 C	M.Inf.1138 Usable Security and Privacy 5 C			M.Inf.1201 System development in a research-related project work 12 C	SK.Bio.305 Biostatistics with R 3 C			M.Inf.1809 Profession- specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession- specific key skills in research- related project work 6 C
4. SuSe Σ 30 C	Master's thesis 30 C								

9. Specialisation “Application-oriented systems development with a specialisation in Geoinformatics“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master's thesis (30 C)				Specialisation (48 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 31 C	M.Inf.2204 Introduction to Graph Machine Learning 5 C	M.Inf.1114 Algorithms on Sequences 5 C	M.Inf.1138 Usable Security and Privacy 5 C	M.Inf.1155 Seminar: Selected aspects of software engineering 5 C	M.Geg.12 Project work: GIS-based resource assessment and -utilisation planning 6 C	M.Geg.06 Quaternary Climate and Landscape Evolution 5 C			
2. SuSe Σ 27 C	M.Inf.1250 Seminar: Software quality assurance 5 C	M.Inf.1185 Sensor Data Fusion 5 C			M.Geg.05 Geoinformation systems and environmental monitoring 5 C	M.Geg.02 Ressource utilisation problems 6 C	M.Inf.1804 Practical Course in Software Quality Assurance 6 C		
3. WiSe Σ 32 C					M.Inf.1201 System development in a research-related project work 12 C		M.Geg.903 Geo-informatics project Practical Course 8 C	M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. SuSe Σ 30 C	Master's thesis 30 C								

10. Specialisation “Application-oriented systems development with a specialisation in Medical Informatics“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master's thesis (30 C)				Specialisation (48 C)				Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 30 C	M.Inf.1244 Data Management for Data Science 5 C	M.Inf.1138 Usable Security and Privacy 5 C			M.Inf.1306 Market Analysis 9 C	M.Inf.1356 Infrastructures for clinical research 9 C	M.Inf.1307 Current Topics in Medical Informatics 6 C	M.Inf.1236 High- Performance Data Analytics 6 C		
2. SuSe Σ 30 C	M.Inf.1171 Cloud and Service Computing 5 C	B.Inf.1250 Deep Learning for Natural Language Processing 9	B.Inf.1236 Machine Learning 6 C							
3. WiSe Σ 30 C					M.Inf.1304 E-Health 6 C		M.Inf.1201 System development in a research- related project work 12 C		M.Inf.1804 Practical Course in Software Quality Assurance 6 C	M.Inf.1810 Expansion of profession- specific key skills in research- related project work 6 C
4. SuSe Σ 30 C	Master's thesis 30 C									

11. Specialisation “Application-oriented systems development with a specialisation in Ecological Informatics“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master's thesis (30 C)			Specialisation (48 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. SuSe Σ 30 C	M.Inf.1141 Semi-structured data and XML 6 C	B.Inf.1236 Machine Learning 6 C		M.FES.122 Ecological Simulation Modeling 6 C	M.FES.123 Functional-Structural Plant Models 6 C	M.FES.121 Advanced Data Analysis with R 6 C		
2. WiSe Σ 27 C	B.Inf.1248 Language as Data 6 C	B.Inf.1237 Deep Learning for Computer Vision 6 C		B.Forst.1110 Silviculture 9 C	M.Inf.1802 Practical Course on XML 6 C			
3. SuSe Σ 33 C				M.Inf.1201 System development in a research-related project work 12 C	B.Forst.1115 Silviculture - Exercises 3 C	M.Forst.221: Remote Sensing and GIS 6 C	M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. WiSe Σ 30 C	Master's thesis 30 C							

12. Specialisation “Application-oriented systems development with a specialisation in Law and Computer Science“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master's thesis (30 C)			Specialisation (48 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. SuSe Σ 30 C	M.Inf.1120 Mobile communication 5 C	M.Inf.1122 Seminar specialising in telematics 5 C		S.RW.1140 Youth media protection law 6 C	S.RW.1432 Sociology of law 4 C	B.WIWI-OPH.0009 Law 8 C		
2. WiSe Σ 31 C	M.Inf.1124 Specialisation in computer networks 5 C	M.Inf.1138 Usable Security and Privacy 5 C	M.Inf.1139 Privacy Enhancing Technologies 5 C	S.RW.1233 Tele-communications law 6 C	S.RW.1317 Criminology I 6 C	M.Inf.1824 Practical Course on Computer Security and Privacy 6 C		
3. SuSe Σ 29 C	M.Inf.1291 Seminar Advanced Topics in Computer Security and Privacy 5 C			M.Inf.1201 System development in a research-related project work 12 C			M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. WiSe Σ 30 C	Master's thesis 30 C							

13. Specialisation “Application-oriented systems development with a specialisation in Business Information Systems“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master's thesis (30 C)				Specialisation (48 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module	Module
1. SuSe Σ 28 C	M.Inf.1171 Cloud and Service Computing 5 C	M.Inf.1122 Seminar specialising in telematics 5 C			M.WIWI-WIN.0005 Seminar on business informatics 12 C		M.WIWI-BWL.0112 Corporate Development 6 C		
2. WiSe Σ 32 C	M.Inf.1192 Seminar on Privacy in Ubiquitous Computing 5 C	M.Inf.1138 Usable Security and Privacy 5 C	M.Inf.1124 Specialisation in computer networks 5 C	M.Inf.1232 Parallel Computing 5 C	M.WIWI-WIN.0001 Modeling and System Development 6 C	M.WIWI-BWL.0023 Performance Management 6 C			
3. SuSe Σ 30 C					M.Inf.1201 System development in a research-related project work 12 C	M.Inf.1226 Security and co-operation in wireless networks 6 C		M.Inf.1809 Profession-specific KC in research-related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. WiSe Σ 30 C	Master's thesis 30 C								

14. Specialisation “Application-oriented systems development with a specialisation in Scientific Computing“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master’s thesis (30 C)		Specialisation (48 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 31 C	M.Inf.1113 Specialisation in Theoretical Computer Science 5 C	M.Inf.1111 Seminar Theoretical Computer Science 5 C	B.Mat.3122 Introduction to algebraic number theory 9 C	B.Phy.1571 Introduction to Biophysics 6 C	B.Inf.1241 Computational Optimal Transport 6 C		
2. SuSe Σ 30 C	B.Inf.1236 Machine Learning 6 C	M.Inf.1102 Extended Practical Course on Modelling 9 C	B.Mat.3031 Scientific Computing 6 C	M.Inf.1829 Praktikum High- Performance Computing 6 C	M.Inf.1834 Extension-High- Performance Computing (EHPC) 3 C		
3. WiSe Σ 29 C	M.Inf.1114 Algorithms on Sequences 5 C		M.Inf.1201 System development in a research-related project work 12 C			M.Inf.1809 Profession-specific KC in research- related project work 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. SuSe Σ 30 C	Master’s thesis 30 C						

15. Specialisation “Application-oriented systems development with a specialisation in Computational Neuroscience“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master’s thesis (30 C)			Specialisation (48 C)				Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 30 C	B.Inf.1237 Deep Learning for Computer Vision 6 C	M.Inf.1232 Parallel Computing 6 C	M.Inf.1236 High- Performance Data Analytics 6 C	B.Phy.5651 Advanced Computational Neuroscience I 3 C	B.Phy.5601 Theoretical and Computational Neuroscience I 3 C	B.Phy.1561 Introduction to Physics of Complex Systems 6 C			
2. SuSe Σ 32 C	M.Inf.1142 Semantic Web 6 C	M.Inf.1141 Semi- structured data and XML 6 C		M.Inf.1829 Practical Course High- Performance Computing 6 C	B.Phy.5602 Theoretical and Computational Neuroscience II 3 C	B.Inf.1236 Machine Learning 6 C	M.Inf.1185 Sensor Data Fusion 5 C		
3. WiSe Σ 28 C				M.Inf.1201 System development in a research- related project work 12 C	M.Phy.5601 Seminar Computational Neuroscience/ Neuroinformatics 4 C			M.Inf.1809 Profession- specific KC in research- related project work 6 C	M.Inf.1810 Expansion of profession- specific key skills in research- related project work 6 C
4. SuSe Σ 30 C	Master’s thesis 30 C								

16. Specialisation “Digital Humanities“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)			Specialisation (48 C) Master's thesis (30 C)			Key competencies (12 C)
	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 32 C	B.Inf.1250 Deep Learning for Natural Language Processing 9 C	M.Inf.1142 Semantic Web 6 C	M.Inf.2249 Seminar Digital Humanities and Information Science 5 C	B.Inf.1904 Introduction to Computational Linguistics and NLP 6 C	B.Inf.1248 Language as Data 6 C		
2. SuSe Σ 31 C	M.Inf.2246 Advanced Natural Language Processing 5 C	B.Inf.1244 Data Management for Data Science 5 C		B.DH.02: Introduction to Computational Image and Artefact Analysis 6 C	B.DH.33 Information retrieval and corpus building for text and language analysis (9 C)		M.Inf.1827 Linked Data and Semantic Web 6 C
3. WiSe Σ 27 C				M.DH.20a Research project on digital language analysis 9 C	M.DH.13 Theories and Research Questions in Computational Image Analysis 9 C	M.Inf.1905 Advanced Topics in Language and Text Processing 3 C	M.Inf.1809 Profession-specific KC in research-related project work 6 C
4. WiSe Σ 30 C				Master's thesis 30 C			

17. Specialisation “Application-oriented systems development with a specialisation in “Digital Humanities“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C) Master's thesis (30 C)			Specialisation (48 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 31 C	B.Inf.1250 Deep Learning for Natural Language Processing 9 C	M.Inf.1142 Semantic Web 6 C	M.Inf.2249 Seminar Digital Humanities and Information Science 5 C	B.Inf.1904 Introduction to Computational Linguistics and Natural Language Processing 6 C	B.Inf.1248 Language as Data 6 C			
2. SuSe Σ 29 C	M.Inf.1171 Cloud and Service Computing 5 C	M.Inf.1195 Seminar Human in the Age of Artificial Intelligence 5 C		B.DH.02 Introduction to digital image and object science 6 C	M.Inf.2203 Interpretability and Bias of Machine Learning Models 6 C	M.Inf.1906 Computational Semantics and Discourse Processing 6 C		
3. WiSe Σ 30 C				M.Inf.1201 System development in a research-related project work 12 C	M.Inf.1236 High-Performance Data Analytics 6 C		M.Inf.1809 Profession- specific KC in research-related project work 6 C	M.Inf.1827 Practical Course on Linked Data and Semantic Web 6 C
4. WiSe Σ 30 C	Master's thesis 30 C							

18. Specialisation “Data Science“

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)			Specialisation (48 C) Master’s thesis (30 C)			Key competencies (12 C)	
	Module	Module	Module	Module	Module	Module	Module	Module
1. WiSe Σ 30 C	B.Inf.1248 Language as Data 6 C	M.Inf.1232 Parallel Computing 6 C	B.Inf.1237 Deep Learning for Computer Vision 6 C	M.Inf.1236 High Performance Data Analytics 6 C	B.Inf.1241 Computational Optimal Transport 6 C			
2. SuSe Σ 31 C	B.Inf.1236 Machine Learning 6 C	B.Inf.1231 Infrastructures of Data Science 6 C		M.Inf.1194 Seminar Privacy in Data Science 5 C	B.Inf.1250 Deep Learning for NLP 9 C	M.Inf.1237 Seminar Newest Trends in High- Performance Data Analytics 5 C		
3. WiSe Σ 29 C				M.Inf.1259 Data Science in a research-related project work 12 C	M.Inf.1186 Seminar Hot Topics in Data Fusion and Analytics 5 C		M.Inf.1822 Practical Data Fusion 6 C	M.Inf.1810 Expansion of profession-specific key skills in research-related project work 6 C
4. SuSe Σ 30 C				Master’s thesis 30 C				

19) Specialisation "Bioinformatics", part-time study, beginning in the winter semester

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)		Specialisation (48 C) Master's thesis (30 C)		Key competencies (12 C)
	Module	Module	Module	Module	Module
1. WiSe Σ 18 C	B.Inf.1237 Deep Learning for Computer Vision 6 C		M.CoBi.572 Biology for Bioinformaticians 8 C	M.CoBi.541 Bioinformatics and its areas of application 4 C	
2. SuSe Σ 12 C	B.Inf.1248 Language as Data 6			B.Bio-NF.129 Genetics and Microbial Cell Biology 6C	
3. WiSe Σ 18 C	M.Inf.1232 Parallel Computing 6 C		M.iPAB.0003 Statistical genetics, breeding informatics and experimental design 6 C		M.Inf.1828 Lab Usable Security and Privacy 6 C
4. SuSe Σ 12 C	B.Inf.1231 Infrastructures of Data Science 6 C		M.Inf.1501 Data mining in bioinformatics 6 C		
5. WiSe Σ 12 C	M.Inf.1236 High-Performance Data Analytics 6 C		M.Inf.1505 Models and Algorithms in Bioinformatics 6 C		
6. SuSe Σ 18 C			M.Inf.1202 Bioinformatics in a research- related project work 12 C		M.Inf.1809 Profession-specific KC in research-related project work 6 C
7. WiSe Σ 30 C			Master's thesis 30 C		

20) Specialisation "Data Science", part-time study, beginning in the summer semester

Sem. Σ C	Core curriculum (24 C) and Elective modules (6 C)		Specialisation (48 C) Master's thesis (30 C)			Key competencies (12 C)
	Module	Module	Module	Module	Module	Module
1. SuSe Σ 12 C	M.Inf.1236 Machine Learning 6 C		B.Inf.1231 Infrastructures of Data Science 6 C			
2. WiSe Σ 18 C	M.Inf.1232 Parallel Computing 6 C	B.Inf.1241 Computational Optimal Transport 6 C	M.Inf.1236 High-Performance Data Analytics 6 C			
3. SuSe Σ 15 C			B.Inf.1244 Data Management for Data Science 5 C	M.Inf.1194 Seminar on Privacy in Data Science 5 C	M.Inf.1114 Algorithms on Sequences 5 C	
4. WiSe Σ 15 C	B.Inf.1237 Deep Learning for Computer Vision 6 C		B.Inf.1251 Deep Learning for Computer Vision Advanced 4 C	M.Inf.1237 Seminar Newest Trends in High-Performance Data Analytics 5 C		
5. SuSe Σ 18 C	M.Inf.1829 Practical Course in High-Performance Computing 6 C		B.Inf.1240 Visualization 6 C			M.Inf.1822 Practical Course in Data Fusion 6C
6. WiSe Σ 12 C			M.Inf.1258 Advanced Research Training (small scale) – Data Science 6 C			M.Inf.1809 Profession-specific KC in research-related project work 6 C
7. SuSe Σ 30 C			Master's thesis 30 C			

**Appendix III: Module packages „Computer Science“ worth a total of 36 C or 18 C
(can only be taken as part of another suitable Master’s degree programme)**

The Department of Computer Science offers the following module packages for students of other degree programmes. The module catalogue which also contains the module overview in the sense of § 4 section 1 sentence 1 APO, is published separately; it is an integral part of these Examination and Study Regulations.

1. Admission requirements

The following common admission requirements apply to the module packages "Computer Science" worth a total of 36 C and 18 C respectively:

Proof of achievements from foundations of computer science totalling at least 30 C. Proof of achievements in the foundations of mathematics totalling at least 18 C. Proof of programming knowledge totalling at least 5 C. Proof of further achievements in computer science totalling at least 10 C.

2. Module package „Computer Science“ worth a total of 36 C

a. Study objectives

The basic aim is to develop the ability to work independently in the field of system-oriented computer science. To this end, knowledge of system-oriented computer science is to be deepened and skills in dealing with current scientific literature are to be acquired.

b. Sample curriculum

Sem. Σ C	Module package „Computer Science“ (36 C)		
	Modul	Modul	Modul
1. Σ 16 C	B.Inf.1802 Training in Programming 6 C	B.Inf.1701 Advanced Theoretical Computer Science 5 C	B.Inf.1705 Advanced Software Engineering 5 C
2. Σ 15 C	B.Inf.1713 Advanced Data Science 5 C	B.Inf.1707 Advanced Computer networks 5 C	M.Inf.1121 Specialisation Mobile Communication 5 C
3. Σ 5 C	M.Inf.1122 Seminar on Advanced Topics in Telematics 5 C		
Σ 36 C			

3. Module package „Computer Science“ worth a total of 18 C

a. Study objectives

The basic aim is to develop the ability to work independently in the field of systems-oriented computer science. To this end, advanced competences in systems-oriented computer science, e.g. dealing with current scientific literature, are to be acquired.

b. Sample curriculum

Sem. Σ C	Module package „Computer Science“ (18 C)		
	Modul	Modul	Modul
1. Σ 6 C	B.Inf.1706 Advanced Databases 6 C		
2. Σ 6 C	M.Inf.1141 Semistructured Data and XML 6 C		
3. Σ 6 C	M.Inf.1243 Deductive Databases 6 C		
Σ 18 C			