

DRAFT of December 30, 2021

**Statute for the revision of the
admission regulations of Heidelberg University for the
Master's degree in Data and Computer Science
(formerly Applied Computer Science)**

December 9, 2021

On the basis of [section 63 subsection 2](#), [section 60 subsection 2](#), No. 2, [section 29 subsection 4](#) of the Law on Universities in Baden-Württemberg (State University Law - LHG) of January 1st, 2005 (Journal of Laws p. 1), most recently changed by Article 1 of the Fourth Law to Change University Regulations (Fourth University Law Amendment Act - 4th HRÄG) of December 17, 2020 (Journal of Laws p. 1204), the Senate of Heidelberg University adopted the following statutes on December 7, 2021.

The rector gave his approval on December 9, 2021.

Article 1

The admission regulations of Heidelberg University for the Master's degree program Data and Computer Science have been revised as follows:

"Admission regulations of Heidelberg University for the
Master's degree program in Data and Computer Science"

of December 9, 2021

On the basis of [section 63 subsection 2](#), [section 60 subsection 2](#), No. 2, [section 29 subsection 4](#) of the Law on Universities in Baden-Württemberg (State University Law - LHG) of January 1st, 2005 (Journal of Laws p. 1), most recently changed by Article 1 of the Fourth Law to Change University Regulations (Fourth University Law Amendment Act - 4th HRÄG) of December 17, 2020 (Journal of Laws p. 1204), the Senate of Heidelberg University adopted the following statutes on December 7, 2021.

Section 1: Scope

Heidelberg University awards the study places available in the Master's degree program Data and Computer Science in accordance with the following provisions.

Section 2: Start of Studies, Application for Admission, Deadline and Form

- (1) The start of studies is possible in the summer semester or in the winter semester.
- (2) Persons who meet the admission requirements according to these statutes as well as the general enrollment requirements, can enroll without a prior admission procedure within the general enrollment deadlines in accordance with the applicable admission and enrollment regulations. Persons, who have not acquired the university degree,

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which is the entry requirement according to Section 3, subsection 1, in Germany, should submit the application for admission for the winter semester by June 15 (receipt), for the summer semester by November 15 (receipt) to the student secretary of the admissions office for foreign students at Heidelberg University.

- (3) Proof of compliance with the entry requirements for the Master's degree program Data and Computer Science in accordance with subsection 2, sentence 1, is provided by a certificate issued by the admission committee.
- (4) The following documents must be submitted for a certificate from the admissions committee in accordance with subsection 2:
 - (a) Evidence of the existence of the prerequisites mentioned in Section 3; an overview based on the template provided on the faculty's website has to be attached, indicating in which modules and in which way the knowledge to be verified was acquired;
 - (b) a declaration as to whether the applicant has lost the right to be examined at a domestic or foreign university in the Master's degree program Data and Computer Science or in related degree programs with essentially the same content, or is in an ongoing examination process in these degree programs.
- (5) The university can request that the original documents, on which the admission decision is based, must be submitted when enrolling.

Section 3: Entry Requirements

- (1) Admission requirements for the Master's degree program Data and Computer Science are:
 - (a) a degree in a bachelor's program of study with a standard period of study of at least three academic years, which has been obtained with particular success
 - (i) with a subject component of 100% in computer science, mathematics, natural or engineering sciences or a degree recognized as equivalent in a course of study with essentially the same content from a domestic or foreign university or
 - (ii) with a subject component of at least 50% in computer science, computational linguistics, mathematics or physics, if the bachelor's thesis has a 100% subject component in computer science, computational linguistics, mathematics or physics, or a degree recognized as equivalent in a course of study with essentially the same content from a domestic or foreign university
- as well as

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(b) Proven knowledge in computer science through the degree according to (a) or other proven knowledge in computer science in the amount of 32 CP, of which at least 6 CP can be assigned to both areas listed under items 1 and 2 and at least 6 CP are assigned to two of the areas listed under items 3 to 5 of the following areas:

- (i) *Algorithms and data structures:*
Basics of algorithms as well as runtime complexity and data structures;
- (ii) *Practical computer science:*
Basics of programming, object-oriented programming and software engineering;
- (iii) *Theoretical Computer Science:*
Formal languages and automata and complexity theory
- (iv) *Computer architecture*
Switching algebra, sequential logic, pipelines, storage hierarchy, and distributed systems and networks;
- (v) *Mathematical basics:*
Vector spaces, linear mappings and the analysis of functions in one variable and of sequences and series.

as well as

(c) Proof of English language proficiency at level B2 of the Common European Framework of Reference for Languages (CEFR) based on

- School reports showing that English as a school subject was continuously taken in the last four school semesters up to graduation and was assessed with an average of at least 9.5 grade points or comparable;
- Certificate of the Test of English as a Foreign Language (TOEFL) successfully passed with a total of at least 90 points in the areas of Reading, Listening, Speaking and Writing as part of the Internet-based test (iBT);
- other suitable evidence.

(2) The proof of particular success in the program of study, which is an admission requirement, is usually provided by evidence of a university degree of at least 2.5 or ECTS grade B “good”. If the evidence cannot be provided in accordance with subsection 1, the admissions committee can examine other suitable evidence, in particular such as

- (a) about subject-specific individual grades of the Bachelor’s degree, which can provide particular information about the suitability for the desired degree;
- (b) that the applicant belongs to the top 20% of his or her year of examinations in the course of study for which admission is required.

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Section 4: Admission Process

- (1) The rector decides on admissions based on the proposal of the admission committee.
- (2) Admission is to be denied if
 - (a) the requirements set out in Sections 2 and 3 are not met and / or
 - (b) the applicant has lost the right to be examined at a domestic or foreign university in the Master's degree program in Data and Computer Science or in related degree programs with essentially the same content or is in an ongoing examination process in these degree programs.
- (3) If the Bachelor's degree according to Section 3, subsection 1, is not yet available at the time the application is submitted, a provisional certificate from the university of the achievements in the relevant course of study is sufficient; In this case, the applicant takes part in the admission procedure with the grades shown on the preliminary certificate. A conditional admission can be issued, provided that the Bachelor's degree according to Section 3, subsection 1 and the related requirements are proven by the last working day before the start of the lectures. The admission expires if the evidence according to Section 2, subsection 2, Section 3, section 3, subsection 1, is not submitted in due time.
- (4) In addition, the general provisions of the Admission and Enrollment Regulations of Heidelberg University, that apply to the admission procedure, remain unaffected.

Section 5: Admission Committee

- (1) For the Master's degree program Data and Computer Science, the Faculty of Mathematics and Computer Science at Heidelberg University is setting up an admission committee to prepare for the admission decisions. This consists of four members, who are part of the full-time scientific staff, and a student member with an advisory vote, who belongs to the group of students in the Master's degree program Data and Computer Science. In clear cases, the committee can transfer the assessment of previous educational qualifications to a non-student member by resolution.
- (2) The members of the admission committee, especially the chairperson and deputy, are appointed by the faculty council of the Faculty of Mathematics and Computer Science of Heidelberg University. The term of office of the members is two years, that of the student member one year. Re-appointment is possible.
- (3) After the admission procedure is completed, the admission committee should report to the faculty council on the experiences it has gained and make suggestions for improving and further developing the procedure.

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Section 6: Entry into Force, Transitional Provisions

- (1) The above statutes apply for the first time to the admission procedure for the summer semester 2022 and come into force on the day after their publication in the Rector's newsletter. At the same time, the admission regulations of Heidelberg University for the Master's degree program Applied Computer Science from May 9, 2011 (Rector's bulletin of May 12, 2011, p. 347 ff) are no longer in force.
- (2) Notwithstanding Section 1, subsection 1, persons who have applied for admission or requested a certificate from the admissions committee prior to the entry into force of these statutes, based on the admission regulations of Heidelberg University for the Master's degree program Applied Computer Science of May 9, 2011 (Rector's bulletin of May 12, 2011, p. 347 ff), only have to provide proof of language proficiency in accordance with Section 3, subsection 1 of the above statutes. In addition, the provisions of the admission regulations of May 9, 2011 apply once again for these persons for the admission procedure for the summer semester 2022.

Article 2

1. The above statutes apply for the first time to the admission procedure for the summer semester 2022 and come into force on the day after their publication in the Rector's newsletter. At the same time, the admission regulations of Heidelberg University for the Master's degree program Applied Computer Science from May 9, 2011 (Rector's bulletin of May 12, 2011, p. 347 ff) are no longer in force.
2. Notwithstanding number 1, sentence 1, persons who have applied for admission or requested a certificate from the admissions committee prior to the entry into force of these statutes, based on the admission regulations of Heidelberg University for the Master's degree program Applied Computer Science of May 9, 2011 (Rector's bulletin of May 12, 2011, p. 347 ff), only have to provide proof of language proficiency in accordance with Section 3, subsection 1 of the above statutes. In addition, the provisions of the admission regulations of May 9, 2011 apply once again for these persons for the admission procedure for the summer semester 2022.

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