

Transition rules from the 2017 examination regulations for computer science degree programs to the 2024 examination regulations

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Following the successful reaccreditation of the Computer Science degree programs, the study structures and therefore also the examination regulations will change for the winter semester 2024/25.

Bachelor Program

In the bachelor's degree program, the first study section is now called basic studies (*Basisstudium*), the second specialization studies (*Vertiefungsstudium*). Some of the courses in the basic study program have changed their titles and the number of credit points. The old and new courses correspond to each other according to the following table:

Old		New	
Programmierung	8 LP	Programmierung 1	8 LP
Datenbanksysteme	5 LP	Datenbanken	6 LP
Software Engineering	5 LP	Software Engineering	6 LP
Datenstrukturen und Algorithmen	9 LP	Datenstrukturen und Algorithmen	8 LP
Digitaltechnik	5 LP	Digitaltechnik	6 LP
Rechnerarchitektur	5 LP	Rechnerarchitektur	6 LP
Systemsoftware und systemnahe Programmierung	9 LP	Rechnernetze	6 LP
		Betriebssysteme	5 LP
Lineare Algebra für Informatiker	8 LP	Lineare Algebra für Informatik	8 LP
Analysis für Informatiker	8 LP	Analysis für Informatik	8 LP
Stochastik für Informatiker	6 LP	Stochastik für Informatik	6 LP
Leistungen aus dem Nebenfach		Studium Generale	

This table applies both when remaining in the previous examination regulations and when changing to the new examination regulations. The other modules that exist in the new examination regulations with the same name and the same scope as in the old ones are carried over.

Students who have completed both "Systemsoftware und systemnahe Programmierung" and the previous compulsory elective module "Rechnernetze" before the start of the winter semester 2024/25 can have the compulsory elective module "Rechnernetze" recognized as a compulsory elective module in the field of "Computersysteme".

There are also some new courses. The following recognitions can be made for these when changing to the new examination regulations:

Old		New	
>= 60 LP completed at the time of the change		Einführung in die Informatik	3 LP
Wahlpflichtmodul aus dem Gebiet Softwaretechnik	6 LP	Programmierung 2	8 LP
Gestaltung von Nutzungsschnittstellen	6 LP	Informatik und Gesellschaft or Wahlpflichtmodul Gestaltung von Nutzungsschnittstellen	5 LP o. 6 LP
Wahlpflichtmodul aus dem Gebiet Daten und Wissen	6 LP	Einführung in Data Science	5 LP

If the old examination regulations are retained, the module "Einführung in Data Science" can be taken as a compulsory elective module from the field of "Daten und Wissen". The new compulsory

elective module "Gestaltung von Nutzungsschnittstellen" must be taken instead of the previous compulsory module "Gestaltung von Nutzungsschnittstellen".

In the second stage of studies, all modules are transferred to the new examination regulations if they have not been recognized elsewhere. If you remain in the old examination regulations, all modules in the respective areas can be taken. A specialization module that has already been completed will be recognized as an additional module.

Mentoring is no longer included in the new examination regulations.

Credit points from the minor subject are recognized when changing to the new examination regulations for the Studium Generale. Students who have acquired more than 12 credit points from the minor subject or the General Studies program can transfer the additional credit points to the Master's degree program.

Master Program

The previous 7 focus areas will be restructured into the following 5 focus areas:

- Classical and Quantum Algorithm Design
- Computer and Communication Systems
- Data Science and Intelligent Systems
- Security
- Software Engineering

Modules from the previous focus areas are transferred according to the following table:

Old		New	
Algorithm Design		Classical and Quantum Algorithm Design	
Computer Systems Networks and Communication		Computer and Communication Systems	
Data Science Intelligence and Data		Data Science and Intelligent Systems	

One seminar is recognized as a "Key Skills" module. Students who have already completed two seminars can have the second seminar recognized as a compulsory elective module; the assignment to a focus area depends on the lecturer responsible for the seminar.

Students who have completed work in a minor subject can have this recognized for the Studium Generale.

Students who remain in the old system, can choose to assign the modules to the previous focus areas according to the table above.

Modalities of the change

The change to the new examination regulations can be applied for at any time. The change is declared to the Central Examination Office (*Zentrales Prüfungssekretariat*) via an application, which can be found in PAUL under "Anträge" (Applications). The change can be made during the term of a **project group**, but not during the term of the **Bachelor's or Master's thesis**.

Students who remain in the previous examination regulations can take the Bachelor's examination, including repeat examinations, for the last time in the summer semester 2028, and the Master's examination for the last time in the winter semester 2026/2027.