Computer Science (BSc)

Faculty	Computer Science
Study Modes	Full-time, Academic study with intensive in-company training, Combined Degree Program
Degree	Bachelor of Science
Start of Studies	Winter Term
Normal Duration of Studies	7 semesters
Language	German
Admissions	Restricted Admission

Module descriptions

This degree program is normally completed after seven semesters with the degree of Bachelor of Science, or B.Sc. for short.

The aim of the computer science bachelor's degree course is to give the students a thorough grounding in the composition and mode of operation of IT systems, software development methods, computer networks and databases. In addition to this, the computer studies course provides an introduction to related

disciplines such as mathematics, statistics, numerical methods, physics and business studies. It also includes strategies for method selection and development, as well as modeling and problem-solving. Students learn soft skills (such as teamwork and giving presentations) during supervised project work and seminars.

An integrated internship semester guarantees close contact with industry. The faculty's professors have many years of experience in industry and work closely with a variety of businesses and public institutions.

Study plan

Semester \ CP	5		10	15	20	25	30
1	Einführung in die Programmierung*			Mathematik 1*	Entwicklungslabor	Einführung in die Theoretische Informatik	Rechnerstrukturen
2	Objektorientierte Programmierung*			Mathematik 2*	Software Engineering	Algorithmen und Datenstrukturen	Rechnerarchitektur
3	Fortgeschrittene Programmiertechniken			Statistik	Softwaremodellierung	Daten- und Informationsanalyse	Computernetzwerke
4	Sichere Softwareentwicklung		Projektarbeit 1		Angewandtes Software Engineering	Datenbanksysteme	Betriebssysteme
5	Praxisseminar	AWP	Praktikum				Grundlagen des maschinellen Lernens
6	Seminar Neue Technologien		Projektarbeit 2		FWP		FWP
7	Bachelor-seminar		Bachelorarbeit		FWP		

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Alternativer Studienverlaufsplan SPO 2019

Career expectation

The job profile of a computer scientist is extremely varied and versatile. It includes system and application programming, systems analysis, the further development and maintenance of existing software systems, the creation of new applications from existing modules, the planning and execution of large-scale IT projects, problem analysis, support and expansion of computer networks, consulting in issues of information processing, training for staff and customers, web design and multi-media productions.

Given the changes in communication culture brought about by computers and the internet, and the associated shortage of computer scientists and IT specialists, job opportunities both now and in the future are extremely good.

International

Information for incomings

Information about admission requirements

Applicants for a place on this course should demonstrate an interest in science and technology, as well as having a good grasp of logic. Above all, they need to be inquisitive, imaginative and creative. The course begins each winter semester on October 1st.

For further information and online application, please visit the website of the Department of Academic Affairs.

Subject-specific advice can be arranged with the academic advisor by email.

Downloads and links

- Juridical Foundation
- Timetable

Module catalogue, examinations and performance records in summer semester 2026

This information is preliminary and subject to change.

Expected date of publication: March 16, 2026

Studienplan-Pflichtmodule-IN-SPO2025.pdf (64.7 KB)
Studienplan-Pflichtmodule-IN-SPO2019.pdf (65.1 KB)
Studienplan-Pflichtmodule-IN-SPO2012.pdf (65.3 KB)
Studienplan-Wahlpflichtmodule-IN.pdf (68.1 KB)

Module catalogue, examinations and performance records in winter semester 2025/2026

Published on: October 6, 2025

- Modulhandbuch: Informatik (B.Sc.) SPO 2025
- Modulhandbuch: Informatik (B.Sc.) SPO 2019
- Modulhandbuch: Informatik (B.Sc.) SPO 2012
- Modulhandbuch: Wahlpflichtfächer Bachelorstudiengänge
- Angebot: Wahlpflichtfächer Bachelorstudiengänge

Studienplan-Pflichtmodule-IN-SPO2025.pdf (64.1 KB)
Studienplan-Pflichtmodule-IN-SPO2019.pdf (64.6 KB)
Studienplan-Pflichtmodule-IN-SPO2012.pdf (64.7 KB)
Studienplan-Wahlpflichtmodule-IN.pdf (68.1 KB)

Archive

The module catalogues from previous semesters can be found in Archiv der Modulhandbücher.

The examinations and performance records from previous semesters can be found in Archiv der Studienpläne.

Academic counseling

Prof. Dr. Michael Predeschly

Computer Science

Phone: +49 821 5586-3495

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