Bachelor in Computer Science international B.Sc. - Hof University — Hof University

The Bachelor's program Computer Science is targeted atinternational studentswith first skills in German language (level A2) who are not yet fluent enough to fully study in German, but who are willing to work on their language skills.

In addition, you should be interested innew technologies, enjoy solving problems and working ininterdisciplinary teams. If you also have fun in logical and abstract thinking and in dealing with complex problems, this Bachelor's program is the right choice for you.

With this Bachelor's program, you gain

expertise in major technology trends and IT skills to positively change the world

excellent career perspectives and the chance to work in interdisciplinary teams

advanced German language skills of approx. level B2

In addition, you benefit from

an innovative mix of teaching methods - virtual learning, blended learning, practical exercises and interdisciplinary projects

development of your intercultural skills

valuable work experience gained during the internship semester

As a graduate, you ...

have acquired up-to-date IT skills and competencies as well as proficient German language and intercultural skills

are able to analyze complex problems and use computer systems to develop strategies for their solution, which is required everywhere in science and business

are qualified for many different jobs in the IT industry

Building on the necessary fundamentals in Computer Science, you will learn to developlarge software systemsthat are required in all areas of modern life. The use of thelatest methods and toolsof modern information technology will be practically applied inprojectsthroughout the program.

The standard duration of this Bachelor's program is8 semesters. The first seven semesters provide practice orientated theory (practical exercises, working in labs, interdisciplinary projects etc.).

Semester 1 + 2

basic subjects of Computer Science taught inEnglishlanguage (e.g. Mathematics, Operating Systems and Fundamentals of Programming)

intensive German language training and intercultural preparation

Semester 3 + 4 + 5

mainly taught inGermanlanguage

modules in the core areas of Computer Science like Web Development, Software Engineering, Artifical Intelligence, Data Science or IT Security

Semester 6 + 7

elective modulesto deepen your expertise on individual topics

freely choose 10 electives from our extensive subject catalogue (e.g. RESTful Web Services, Robotics, Internet of Things or Data Analysis and Data Mining)

Semester 8

Internship

Bachelor thesis

After successful completion of the program, Hof University of Applied Sciences awards the academic degreeBachelor of Science (B.Sc.).

Semester 1 + 2

German as a Foreign Language I + II

Fundamentals of Information Technology

Fundamentals of Programming

Operating Systems

Discrete Mathematics

Intercultural competence

Studying with Success

Semester 3

Software Engineering

Algorithms and Data Structures

Computer Networks

Fundamentals of Web Development

Statistics

Design, Communication and Presentation

Semester 4

Software System Development

Applied Artificial Intelligence

IT Security

Full Stack Web Development

Database Systems

Mathematics for Computer Scientists

Semester 5

Advanced Topics of Programming

Advanced Concepts of Artificial Intelligence

Cloud Computing

Data Science

Efficient Programming with C/C++

Digital Ethics

Semester 6 + 7

Software Architecture

Interdisciplinary Software Development Project

Examples of elective modules:

Applied Machine Learning

Architecture of Mobile Applications

Artificial Intelligence in Robotics

Basics of Medicine and Medical Engineering

Cisco Certificated Network Associate (CCNA)

Corporate Management

Cryptology

Data and Text Mining

Deep Learning for Natural Language Understanding

Digital Technology

Hardware-Oriented Programming

Industrial Data Analysis

Internet of Things

Modern App and Web Development

.NET-Programming with C#

Principles of Electrical Engineering

Project Management

RESTful Web Services

Software Reverse Engineering

Semester 8

Internship with Project Thesis

Bachelor Thesis

Program overview: Curriculum

You are ready to work as

Software Developer

IT Project Manager

Software Architect

Full Stack Web Developer

IT Consultant

Database Developer

Network Specialist

Requirements Engineer

Security Expert

Data Scientist

Academic requirements

General higher education entrance qualification or subject-linked university entrance qualification, University of Applied Sciences entrance qualification or professional qualification

If you are not sure about your university entrance qualification, please checkuni-assistand theDAAD database

Language requirements

You need to prove yourproficiency in English. This can be done with either of the following:

TOEFL minimum 90

IELTS 6.5 or above

In addition:German language skills, proven by official test score documents -minimum level A2

All applications must be done via ouronline application portal Primuss

The application period for summer intake is between November 05 and November 30 for Non-EU citizens and between November 05 and January 15 for EU citizens.

An admission committee intensively scrutinizes all applications and decides about final admission. Admission letters will be issued in December.

If you acquired your university entrance certificate abroad, uni-assist must assess your certificate before you can send it to Hof University. We advise you to send your documents touni-assistat least 4 weeks before our application deadline.

If you have any questions concerning the application process, please contactadmission(at)hof-university.de.

Your advantages

Studying atGermany's most popular university

Attractive program content (AI, IT Security, Data Science, IoT, ...)

Top marks in university rankings (CHE, StudyCheck)

Intensive contacts with local companies

Modern campus

Top-equipped labs

Excitingstudent clubs(motorsports, environmental protection group, eSports and many more)

Best prospects on the job market

Computer Science International

EU: November 5 - January 15

Non-EU: November 5 - November 30

Info and services

Timetable

Here you can find your timetable.

The campus is the management and administrative center of the university. Here you will find the university library, high-tech laboratories and university sports facilities.

More about Campus Hof

Esther from Nigeria

„I really love the international Bachelor's degree program in Computer Science because of its very rich curriculum. It covers every aspect of computer science to a level that is not comparable to other universities. I would recommend the program to anyone wishing to study computer science in Germany at the Bachelor's degree level."

In order to join the Computer Science Program you need:

University entrance qualification (if you acquired your university entrance certificate abroad, it has to be assessed by our partneruni-assistfirst)

English language skills proven by official test score documents (TOEFL minimum 90 or IELTS 6.5 or above)

German language skills proven by official test score documents (minimum level A2)

If you fulfill the requirements, we encourage you to send your application via ourPrimuss Application Portal.

There is no application fee.

Unfortunately, we do not have the capacity to pre-check any documents before application.

If you are unsure if your previous degree/school education is sufficient to study in Germany, please check it in theDAAD databaseby entering your data.

Before you apply, your university entrance qualification has to be assessed by our partneruni-assist.

Prior to your application at Hof University, your educational certificates have to be evaluated by our partneruni-assistfirst.

You need to get a so-calledVPDwhich you can use in the appliation process at Hof University.

Yes, you can apply with a VPD (Vorprüfungsdokumentation) from uni-assist even if it was issued for another university.

You can also apply with a VPD that was issued for an earlier semester.

Please note that the decision on accepting documents is solely made by the examination board in each individual case.

For the Computer Science Program, we accept:

TOEFL iBT 90 points (or higher)

IELTS 6.5 (or higher)

Test results should not be older than three years at the time of the semester start.

The examination board decides if your proof is accepted for admission only AFTER you have submitted your application.

For the Computer Science Program, you need to prove basic German language skills with a minimum level A2 according to the CEFR (Common European Framework of Reference for Languages).

We only accept official test score documents (e.g. Goethe, telc, ÖSD, TestDaF).

Attendance certificates are not sufficient as proof of German language skills.

You can apply via ourPrimuss Application Portal.

Please note that an application is only possible during the application period.

Applications via post or email will not be considered.

Please visit our official website about theapplication and admissionprocess.

You can find those information in ourFAQs for international degree-seeking students.

Please contact our Welcome Center.

Program Head

Student Affairs - Admission

Student Affairs - Program Manager

Prof. Dr. Johannes Michael

bitte Termin per Mail vereinbaren

Kathrin Schötz

Sabine Figura-Ogrodnik