

Bachelor in Computer Science (B.Sc.) - Hof University — Hof University

Source:

<https://www.hof-university.com/studying-at-hof-university/our-degree-programs/computer-science-bsc.html>

In the Computer Science program at Hof University, you will acquire all the necessary skills to analyze, design and implement modern software systems. In the 5th and 6th semester you can decide for yourself in which current topics such as AI, data science, IT security, IoT or cloud computing you want to deepen your expertise.

Furthermore, the special focus on practical exercises and projects will also help you to further develop your soft skills and give you an advantage when you enter your future professional life.

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

Semester 1:

Fundamentals of Information Technology

Fundamentals of Programming

Operating Systems

Database Systems

Discrete Mathematics

Studying with Success

Semester 2:

Software Engineering

Algorithms and Data Structures

Computer Networks

Fundamentals of Web Development

Statistics

Design, Communication and Presentation

Semester 3:

Software System Development

Applied Artificial Intelligence

IT Security

Full Stack Web Development

English for Computer Scientists

Mathematics for Computer Scientists

Semester 4:

Advanced Topics of Programming

Advanced Concepts of Artificial Intelligence

Cloud Computing

Data Science

Efficient Programming with C/C++

Digital Ethics

Semester 5 + 6:

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 7:

Internship with Project Thesis

Bachelor Thesis

General or subject-linked university entrance qualification, university of applied sciences entrance qualification or, if applicable, professional qualification. Here you can find more details.

Please be aware that this program is taught in German.

If you are looking for our international Computer Science program you can find it here

Your advantages

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

Top marks in university rankings (CHE, StudyCheck)

Intensive contacts to local companies

Modern campus

Top-equipped labs

Exciting student clubs (eSports, motor sports, environmental protection group and many more)

Best prospects on the job market

Computer Science

May 1 - July 15

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

Program Head

Student Counseling

Student Affairs - Program Manager

Prof. Dr. Johannes Michael

bitte Termin per Mail vereinbaren

Doreen Rustler

Michael Luft