

How do I apply for a place on the programme?

For information on the application procedure, visit www.uni-passau.de/en/apply or get in touch with the Student Registration Office.

The B.Sc. Computer Science programme commences twice a year, in April and October.

Good German language skills at level B2 of the Common European Framework of Reference for Languages (CEFR) are required for this degree programme, as it is entirely taught in German.

If you need to learn German first, we have the right language programme for you:

www.uni-passau.de/en/learn-german

Programme	Computer Science
Degree awarded	Bachelor of Science (B.Sc.)
Duration and ECTS	6 semesters; 180 ECTS credits
Starts in	April and October
Language of instruction	German

Further information and contact details

Programme page on the web

www.uni-passau.de/en/bsc-computer-science

Faculty of Computer Science and Mathematics

Innstrasse 33, 94032 Passau, Germany

Phone: +49 851 509 3001

E-mail: dekanat@fim.uni-passau.de

www.fim.uni-passau.de/en/

Academic Advice Service

Primary contact for prospective international students seeking advice on study options and entry requirements

Innstr. 39, 94032 Passau, Germany

E-mail: advice@uni-passau.de

www.uni-passau.de/en/academic-advice

International Office

Assists international students with immigration formalities and getting settled in Passau

www.uni-passau.de/en/international

Student Registration Office

Contact for enquiries related to your application

www.uni-passau.de/en/student-registration-office

Language Centre

Offers a wide range of language courses

www.sprachenzentrum.uni-passau.de/en

Centre for Careers and Competencies

Helps students seeking internships or career entry positions and offers transferable skills courses

www.uni-passau.de/en/zkk

iStudi Coach for job market induction

Provides job market orientation and advice on internship and job search to international students

www.uni-passau.de/en/iStudi

German Courses Passau

German language courses for international students

www.uni-passau.de/en/learn-german

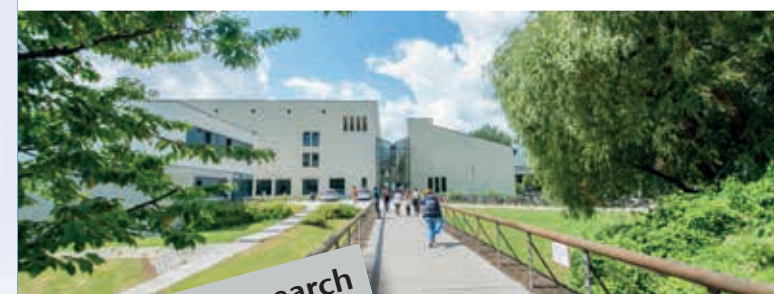
Computer Science Summer Camp

Gain an insight into computer scientists' daily work life

<https://sommerncamp.fim.uni-passau.de>



Bachelor of Science in Computer Science



Top-rated research



B.Sc. Computer Science

About the programme

Today, information technology (IT) permeates almost all areas of social and business life; some of them even owe their existence to IT.

This bachelor's programme in Computer Science teaches students the principles and mathematical underpinnings of this key science.

The aim of this programme is to give you the tools to work as software developers, while conveying the scientific underpinnings and enabling you to think in terms of abstract structures.

You will learn to put problems of computer science into precise statements, arrive at solutions by creating suitable mathematical models and implement optimised solutions on computer systems.

Students who complete the bachelor's programme may go on to study for the Master of Science in Computer Science at the University of Passau, where they can build on their acquired knowledge and specialise in a particular field.



Features

- Includes a major software engineering project carried out in a team setting over a full semester
- Superb staff-student ratio
- Bavaria-wide leading position of Passau's Computer Science department in the CHE Research Rankings
- Integrated subject-specific English language training
- A great student experience on one of Germany's loveliest university campuses

Career prospects

Computer scientists are engaged in a wide and growing range of fields, as technologies continue to develop.

They occupy exciting positions in the public and private sectors, e.g. in industry, commerce, insurance, financial services, consultancies, and of course, at scientific research institutions.

One possible career path is in software or hardware development at a high-technology company, where projects are typically tackled in interdisciplinary teams.

Alternatively, having graduated from this programme, you may study for a master's degree and potentially work towards a career in academia.

Programme syllabus

The programme consists of the Computer Science core module and one elective.

Computer Science core module

- Software Engineering and Programming
- Databases and Information Systems
- Algorithms
- IT Security
- Technical Principles of Computer Science
- Computer Architecture and Computer Networks
- Distributed Systems
- Mathematical and Theoretical Foundations of Computer Science

You will choose one elective module:

- Mathematics
- Business Administration
- Applied Foreign Languages
- Psychology or another suitable course upon approval by the Board of Examiners

Please refer to the syllabus in the study and examination regulation for more detailed information on the programme structure.

