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

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**Programme**

<table>
<thead>
<tr>
<th>Degree awarded</th>
<th>Bachelor of Science (B.Sc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration and ECTS</td>
<td>6 semesters; 180 ECTS credits</td>
</tr>
<tr>
<td>Starts in</td>
<td>April and October</td>
</tr>
<tr>
<td>Language of instruction</td>
<td>German</td>
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</tbody>
</table>

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**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. 41, 94032 Passau, Germany
  Phone: +49 851 509 ext. 1154, 1153, 1152, 1151 or 1150
  E-mail: advice@uni-passau.de
  www.uni-passau.de/en/academic-advice

- **International Office**
  Assists international students with the immigration formalities and with 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
  sommercamp.fim.uni-passau.de

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06/2018
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.

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

Elective modules – choose one from:

- 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 regulations for more detailed information on the programme structure.

Features

- Includes a major software engineering project, carried out in a team setting over the course of a full semester
- Individual guidance in small learning groups
- Computer Science scored first place for research among Bavarian universities 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.