

## Computer Science

Students of the programs “Computer Science” or “Applied Computer Science” will be able to develop complex computer science systems as well as follow research in their selected specialization field. After the exams are successfully completed, they will be qualified for professional work in industry and for the PhD program of the department.

All programs are taught by professors of the Computer Science Department as well as by leading scientists of the allied research institutes Fraunhofer IESE, DFKI, and MPI-SWS.

### 1 M.Sc. Computer Science

Degree awarded	Master of Science (M.Sc.)
Duration	4 semesters (2 years)
Credit points	120 ECTS-Credits
Admission requirements & process	via ISGS, see page 19
Application deadline	April 30 and October 31
Fees	No tuition fees (state-financed)

The program provides in-depth training in the fundamentals of computer science and the related analysis techniques. Students will be able to develop complex computer science systems as well as follow research in their selected specialization field. The program focuses on one of the following research fields:

- Algorithmics
- Software Engineering
- Embedded Systems
- Intelligent Systems
- Computer Graphics and Visualization
- Information and Communication Systems
- Robotics
- Verification

[www.cs.uni-kl.de/en/studium/studiengaenge/bm-inf](http://www.cs.uni-kl.de/en/studium/studiengaenge/bm-inf)

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## 2 M.Sc. Applied Computer Science

**Fast Facts** identical to program 1

The students of the Applied Computer Science program typically gain more in-depth knowledge in their application area, which can be chosen among the following fields:

- Ambient Systems
- Communication Systems
- Embedded Systems
- Automotive Systems
- Production Systems
- Mathematical Modeling and Simulation
- Information Management (Business Software Development)

[www.cs.uni-kl.de/en/studium/studiengaenge/bm-ai](http://www.cs.uni-kl.de/en/studium/studiengaenge/bm-ai)

## 3 European Master in Software Engineering

Degree awarded	M.Sc., double degree
Duration	4 semesters (2 years)
Credit Points	120 ECTS-Credits
Admission requirements	see program's website below
Fees per year	European students: € 2,250 non-European students: € 3,800

**Application online** <http://emse.inf.unibz.it>

This graduate program, completely taught in English, is organized by a consortium of the TU Kaiserslautern (Germany), the Blekinge Institute of Technology (Sweden) and the Free University of Bolzano (Italy). Students can choose two of these three universities and spend one year in each university. They will receive a double degree.

Scholarships are available from the partners of the EMSE consortium.

[www.cs.uni-kl.de/en/studium/studiengaenge/emse](http://www.cs.uni-kl.de/en/studium/studiengaenge/emse)