



**Hochschule für Technik
und Wirtschaft Berlin**

University of Applied Sciences



Study in Berlin at the HTW



Study in Berlin

Study in Berlin at the HTW

There are many reasons why you should study in Berlin

- Because it is a multicultural city
 - Because of tuition fee costs
 - Because of public transport
 - Because of it's educational system
- more information at

<http://www.study-in-berlin.org/>

There are many reasons why you should study computer science in Berlin

Application oriented study

Good equipped

- modern labs
- small cluster (Hadoop, GPGPUs)

During and after the study many jobs are available in the high tech start-up scene!



Study applied computer science at the HTW Berlin

Study in Berlin at the HTW

english courses - bachelor

- Social Aspects of Computer Science
- Algorithms and Data Structures
- Distributed Systems
- Knowledge Representation
- Developing Social Networks
- Data Privacy and Data Security

Social Aspects of Computer Science

- B15 Gesellschaftliche Aspekte der Informatik
- Bachelor applied computer science, 1. semester
- 5 ECTS credits
- Prof. Dr. Christin Schmidt
- Both in private and professional contexts the reciprocity between computer science and society is evident. On the one hand the discipline computer science itself evolved out of society, on the other hand it influences many aspects of our social life.

Professionals in computer science will most likely be confronted with many situations, in which knowledge of complex interactions between society and computer science is an essential asset striving for the „best“ solution or a „correct“ behaviour. There is a consensus that criteria for assessing the quality of output within computer science is not only limited to technical or mathematical aspects, but also strongly related to ethical, legal and social issues. Therefore, these areas of interest are addressed in the module „social aspects of computer science“.

Algorithms and Data Structures

- B21 Algorithmen und Datenstrukturen
- Bachelor applied computer science, 1. semester
- 5 ECTS credits
- Prof. Dr. Jürgen Sieck
- This course provides students with basic knowledge about algorithms and corresponding data structures, and enables them to analyse and design algorithms and solve algorithmic problems. Algorithms include searching and sorting, mathematical and graph algorithms, backtracking and data compression.

Distributed Systems

- B41 Verteile Systems
- Bachelor applied computer science, 4. semester
- 5 ECTS credits
- Prof. Dr. Albrecht Fortenbacher
- Students gain knowledge about different aspects of distributed systems, from system models and architectures to principles of interaction, error handling, security, from networking protocols to communication paradigms like remote procedure calls or message passing. Learning about distributed algorithms, middleware, distributed services and distributed applications enables them to design, develop and analyze distributed systems.

Knowledge Representation

- B15 Wissensrepresentation
- Bachelor applied computer science, 4. semester
- 5 ECTS credits
- Prof. Dr. Christian Herta
- Students are enabled to plan and develop systems for knowledge representation, knowledge processing and computational intelligence. They learn about the different possibilities of representing knowledge and how to acquire knowledge automatically by learning from samples or via natural language processing.

Developing Social Networks

- B54WT Entwicklung sozialer Anwendungen
- Bachelor Angewandte Informatik, 5. Semester
- 5 ECTS credits
- Prof. Dr. Thomas Schwotzer
- Technical basis of social networks are (or at least should be) semantic networks. Social networking is also a very good example of peer-to-peer communication. Both, semantic and P2P technologies are quite broad fields in IT. We take a very practical and less theoretical approach: We use a Java framework for building P2P semantic applications to build our own social application. Often, we have real customers who are interested in (prototyp) applications. Have a look at our history. That class can lead to topics for students Bachelor / Master thesis and further research and development.

Data Privacy and Security

- B52 Datenschutz und Datensicherheit
- Bachelor Angewandte Informatik, 5. Semester
- 5 ECTS credits
- Prof. Dr. Albrecht Fortenbacher
- This course provides students with basic knowledge about cryptography, security middleware, and data privacy issues. It enables students to analyze security and weakness of systems, to design secure systems by adopting appropriate methods and algorithms, to better understand data privacy issues, including threats to data privacy and their implications, and to improve data privacy within an organization.

(english) courses - master

- Independent Coursework
- Research Project



Location

Study in Berlin at the HTW

in Oberschöneweide directly located on the spree river



more information at:

- <http://www-en.htw-berlin.de/>
- <http://www-en.htw-berlin.de/studying/incoming-exchange-students/>



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Any Questions?