



APPLIED COMPUTER SCIENCE MASTER OF SCIENCE

Prospective Student Counseling

Schmalkalden University of Applied Sciences
Blechhammer
98574 Schmalkalden

T +49 (0) 36 83 | 6 88 - 10 24
E studium@hs-schmalkalden.de
N www.hs-schmalkalden.de

Faculty of Computer Science

Degree programme Applied Computer Science
Prof. Hartmut Seichter, PhD
Blechhammer
98574 Schmalkalden

T +49 (0) 36 83 | 6 88 - 41 04
E h.seichter@hs-sm.de

STUDIES

APPLIED COMPUTER SCIENCE MASTER OF SCIENCE



APPLIED COMPUTER SCIENCE

MASTER OF SCIENCE



A future-orientated field of study.

Digitalization throughout society requires creative, versatile technical minds to engineer our future. If you already possess a Bachelors' degree in Computer Science, Informatics, Business Informatics or related studies, join our Masters course to extend your knowledge in bleeding edge scientific areas of computing.

We provide you a hands-on study course in the green heart of Germany with exiting, forward looking topics and a personal and friendly atmosphere.



Duration of studies 3 Semester
Lecture language English
Study start Winter semester
Application deadline 15 July



What are important sections and subjects?

Every second of your life is entrenched with computational devices and media. Computer scientist are on the forefront of changing how we write, read, watch and generally communicate with each other.

It is paramount, to analyze, implement and evaluate technical solutions making everyday digitally better. Challenges for Computer Scientists are connected with the main characteristics of these systems and applications:

- **Ubiquity:**
mobile devices interchangeably produce and consume massive amounts of services. They exhibit specific behaviors and are fundamentally different from traditional IT systems.



- **Distribution:**
Modern IT systems are highly distributed, driving the adoption of mobile devices, interactive media and wireless communication. The resulting complexity needs to be met with adequate concepts, methods and technologies.

- **Visual:**
to allow us to communicate, these systems need high performance visual input and output. Interactive interfaces need to be evaluated with scientific rigor to meet usability needs. Your curriculum will mix all these traits of current computing to make you a versatile specialist and get you the best possible start in the field. The curriculum of the study program is divided in two parts: compulsory modules and electives tailored for your specific interests. A small set of compulsory courses will strengthen your knowledge in Computer Science and build a foundation for electives. A large set of elective courses than allow you to specialize and even get you into recent research. Your Master thesis will complete your study course. Electives come in two areas:

- **Elective Area I:**
Programming and Advanced Software Engineering

- **Elective Area II:**
Media Technologies and Human Computer Interaction (HCI)



Typical specialisations, that give your degree programme its profile.



- IT - Security
- Computer Graphics
- Web Applications
- Computational Intelligence



Your chances ...

Done with your master's degree - what's next?

Computer scientist are in demand in all areas of society. With a Masters degree in Applied Computer Science you can lead teams, be a sought-after specialist, spin-off your own company or continue your path into academia with a PhD.