

# MSc in Computer Science and Engineering 2011/2012

## Summary of Rules – Admission of International Students – Prerequisites

Applicants for admission to the MSc in Computer Science and Engineering program should hold a bachelor degree in computer science or related fields.

The student must have solid skills in mathematics and thorough knowledge of software development, including:

- knowledge of at least one programming language and of general programming paradigms
- knowledge of the use of basic data structures for effective realization of algorithms
- experience with development of small and medium-sized programs

The student is expected to be generally capable of studying and using new programming languages.

The student must also be able to document competences within several of the following topics:

- Computer science modelling, including automata and semantics
- Databases, including data models and query languages
- Declarative programming, including functional programming and logic programming
- Digital systems, including digital electronics, computer architectures and systems construction
- Concurrency, including concurrent programming and concurrent systems
- Networks, including web technology and communications networks

The individual study lines and courses may have stricter requirements, and it is a good idea to check them too (it is not mandatory to follow a study line).

Students may have a background that differ from the typical student at the MSc program and should be willing to acquire by themselves any prerequisites that they may be missing.

Admission of international students is decided on the basis of the relevance and quality of the bachelor degree, and the grade point average as well as individual grades for the courses will be taken into account.

All steps in the admission procedure are handled through DTU's Office of International Affairs, whereto inquiries about formalities should be directed.

Questions about the academic qualifications and the program content should be directed to the director of studies.

Further details about the academic requirements, in particular for students with a degree from Denmark, are available here:

Study Handbook with Rules and Regulations: <http://shb.dtu.dk>