MSC IN COMPUTER SCIENCE*

FOR A CAREER IN PROGRAMMING AND SOFTWARE DEVELOPMENT

HIGH-LEVEL RESEARCH

Whether your interest is in complex algorithms, IT security, logic and semantics, pervasive computing, or something completely different within the field of computer science, this programme will give you the opportunity to specialise in an area of your choice. For more information regarding research areas in computer science at Aarhus University, visit www.cs.au.dk/research.

QUALITY TEACHING IN AN INFORMAL SETTING

The Master's programme in Computer Science is dedicated to the highest-quality teaching in an informal learning environment. Our international teaching staff expect students to take an active part in the programme, and staff–student consultation is always encouraged. The teaching is a mix of lectures and classes, with preparatory work in study groups.

I am currently working on an industrial PhD run jointly by Aarhus University's Department of Computer Science and UNSILO. My research is in the field of machine learning, and I work on developing algorithms that can extract understanding from natural text written by humans while aligning the research to industry needs. The work and study culture here in Denmark is relaxed and supportive, and I have great access to my supervisors both at AU and in the company, which means that any issues can be quickly addressed and resolved. Actually I always appreciated how easy it was at AU to talk to the professors informally. This makes the atmosphere less stressful and a lot more productive.

MANUEL CIOSICI
MSc in Computer Science,
Industrial PhD student at UNSILO, from Romania

ADMISSION REQUIREMENTS

We expect applicants to have a bachelor's degree giving a thorough background in basic computer science. This should include: computation theory (formal languages and compilation, mathematical logic and undecidability, design and analysis of algorithms, and data structures), programming (object-oriented programming, functional programming, software architecture, and interaction design), and systems (computer architecture, operating systems, distributed systems, security, databases). For students who meet these requirements, our master's programme offers a number of specialisations, such as cryptology, algorithmics, programming languages, HCI, and ubiquitous computing and interaction.

STUDENT LIFE

The Computer Science department has a range of social spaces for getting together with fellow students outside class, and these are an excellent basis for both study-related and social activities. Our new study café is also a great place to get together and work with your study group. The department and our various student associations organise a variety of events and tech talks in collaboration with local and international companies.

As a first-year student, you will also be allocated a mentor to guide and support your studies throughout the year.

CAREERS

Computer scientists continue to be in great demand all over the world, and AU computer science graduates have a very good reputation. Many Aarhus IT companies are on the lookout for graduates and student employees for part-time jobs. Recent graduates have been recruited by leading IT companies all over the world in areas such as software development, consultancy work, project management, and research.

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PLACE OF STUDY
Aarhus

ANNUAL TUITION FEE
EU/EEA/Swiss citizens: FREE
Others: EUR 13,500

WWW
masters.au.dk/computerscience

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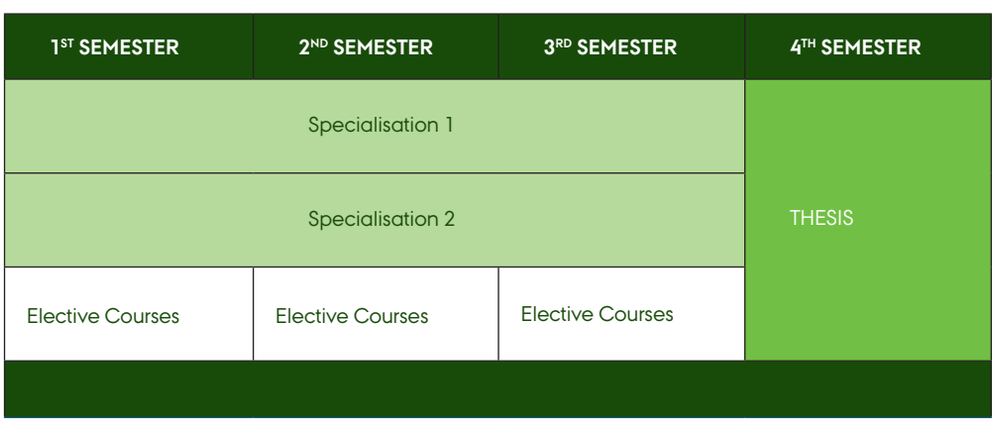
PROGRAMME STRUCTURE

With a combination of two specialisations and electives, there are many ways to structure your Computer Science master's programme. It is also possible to choose just one specialisation, then study abroad during the third semester.
Here is one example of a possible programme structure for the Computer Science MSc:



SPECIALISATIONS

- Algorithmics
- Bioinformatics
- Cryptology
- Human–Computer Interaction (HCI)
- Programming Languages
- Ubiquitous Computing and Interaction (UBI)

For more in-depth information about the Computer Science study programme and subjects, please visit www.cs.au.dk/program-structure.

PARTNERSHIP WITH DESTINATION AARHUS

Destination Aarhus is a professional knowledge-sharing and development community of IT experts from the major IT organisations in Aarhus and the region. It is a community for IT talent from all over the world, exploring the unique opportunities for building an IT career in the Aarhus region. Destination Aarhus brings together companies employing more than 3,000 IT personnel in Aarhus and the surrounding area. It also hosts career events and tech talks for international students and professionals based in Aarhus.

IT CITY KATRINEBJERG

The Department of Computer Science is located in IT City Katrinebjerg, the centre where Aarhus University has consolidated all its IT degree programmes and research. IT City is the base for several IT-related companies. It facilitates contact between the university, research and the business community, and provides the ideal base for advanced technological innovation. As the largest IT education centre in Denmark, with approximately 2,500 students and more than 200 researchers, IT City is an exciting study environment. This multidisciplinary hub, unique to Aarhus University, provides great opportunities in IT for students, researchers, and the business community.

AARHUS UNIVERSITY