MASTER'S DEGREE PROGRAM IT PRODUCT DEVELOPMENT





MASTER'S DEGREE PROGRAM

- 1. Structure of the Master's Degree Program
 - I. Box diagram
 - II. Specializations
 - III. Elective courses
- 2. Study abroad
- 3. Admission
- 4. External Collaboration
- 5. Practical information

Link to current slides: www.cs.au.dk/study





IT PRODUCT DEVELOPMENT MASTER'S

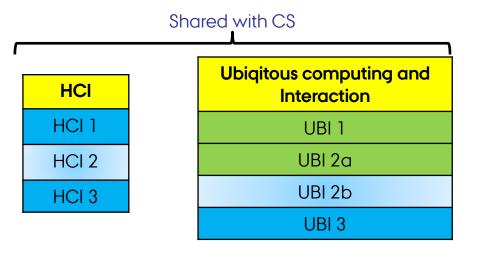
1 st sem (Fall)	Elective (10 ECTS)	UBI 1 (10 ECTS)	Design 1 (10 ECTS)
2 nd Sem (Spring)		UBI 2a (5 ECTS)	Design 2a (5 ECTS)
	Innovation Project (20 ECTS)		
3 rd Sem (Fall)	Study abroad / elective courses (30 ECTS)		
4 th Sem (Spring)	Thesis (30 ECTS)		

- Program must include all courses
- Program must include at least one of HCl 1, HCl 3, UBl 3

Socio-Technical Design

Design 1

Design 2a







SPECIALIZATIONS





HUMAN-COMPUTER INTERACTION

1st Sem (Fall)	Interactivity and Computer Mediation – Concepts, Theories, Methods, Cases (10 ECTS)	ОВ
2 nd Sem (Spring)	Designing Interactive Technologies (10 ECTS)	NE
3 rd Sem (Fall)	Multimodal Interaction (10 ECTS) (not in 2023) Engineering Interactive Technologies (10 ECTS)	EH MW

Semesters are independent – can be taken in any order

Collaboration and Computer-Human Interaction

- Clemens Nylandsted Klokmose
- Eve Hoggan
- Henrik Korsgaard
- Michael Wessely
- Olay Bertelsen
- Susanne Bødker

Ubiqitous Computing and Interaction

- Hans-Jörg Schultz
- Niklas Elmqvist
- Kaj Grønbæk
- Ken Pfeuffer
- Marianne Graves Petersen
- Niels Olof Bouvin





























SOCIO-TECHNICAL DESIGN

1 st sem (Fall)	Social and Aesthetic Interaction Design (10 ECTS)	PGK
2 nd Sem (Spring)	<u>Designing Wearables (5 ECTS)</u>	MP

Semesters are independent - can be taken in any order

Socio-Technical Design

- Majken Kirkegård Rasmussen
- Minna Pakanen
- Peter Gall Krogh











UBIQITOUS COMPUTING AND INTERACTION

1 st sem (Fall)	Building the Internet of Things with P2P and Cloud Computing (10 ECTS)	
and Come (Coming)	Augmented Reality (5 ECTS)	
2 nd Sem (Spring)	Advanced Augmented Reality Project (5 ECTS)	KP
3 rd Sem (Fall) Data Visualization (10 ECTS) OR Deep Learning for Visual Recognition (10 ECTS)		H-JS

Semesters are independent – can be taken in any order

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IT PRODUCT DEVELOPMENT MASTER'S 28 SEPTEMBER 2023

SPECIALIZATIONS: PREREQUISITES

If you don't have the prerequisite courses or similar background in your bachelor, you can take a bachelor course as part of your MSc program.

Specialization	Prerequisite (bachelor course)	
Human-Computer Interaction	<u>Human-Computer Interaction</u>	
Socio-Technical Design	Physical Computing	
Ubiqitous Computing and Interaction	<u>Distributed Systems and Security</u>	





ELECTIVE COURSES





ELECTIVE COURSES

Department of Computer Science - apart from specializations

- Bachelor level courses
- Project Work in IT Product Development (5 or 10 ECTS)
- Erhvervsprojekt / Vocational Training Project at the Department of Computer Science (10 ECTS)

Arts

- <u>Data and Digital Culture</u> (10 ECTS)
- Design som kritisk praksis (10 ECTS)

Note that courses from Arts require skill academic writing and text analysis in the tradition of humanities.

Tech

Embedded Real Time Systems (10 ECTS)

If you fail an exam in an elective course, then that course has become **mandatory**! If you have made an erroneous choice of an elective course please contact us for guidance immediately!





STUDY ABROAD





MASTER'S DEGREE PROGRAM & STUDY ABROAD

1st sem (Fall)	Elective (10 ECTS)	UBI 1 (10 ECTS)	Design 1 (10 ECTS)
2 nd Sem (Spring)		UBI 2a (5 ECTS)	Design 2a (5 ECTS)
	Innovation Project (20 ECTS)		
3 rd Sem (Fall)	Study abroad (30 ECTS)		
4 th Sem (Spring)	<u>Thesis (30 ECTS)</u>		

MSc program with study abroad semester

- If your elective course in the 1st semester is from the HCl or UBI specializations, then there is no requirements on your study abroad courses.
- Otherwise, you have to take an HCl or UBl course when abroad. It need not be a course that is identical to an AU course. It suffices with a course within the area of HCl or UBl.
- Additional information <u>www.cs.au.dk/study</u>





ADMISSION





ADMISSION

- When bachelor completed
- You apply for admission into Master's Program
 - Deadline 1 March
- ... or apply for admission into PhD studies
- Admission
 - You must actively apply for admission
 - You must actively apply for SU
 - Making a study program (contract) does not suffice
- https://kandidat.au.dk/optagelse/ansoegning/





TEMPORARY ADMISSION

- If you lack X<30 ECTS in your bachelor, you may for a 6 months period take 30-X ECTS
 courses to be part of your future Master's Program
- No temporary admission if you still lack a mandatory course and you have failed it twice!
- Never delay (re)examination in a mandatory course!
- This might have SU-related consequences!
- https://studerende.au.dk/en/studies/subject-portals/computer-science/rules-and-guidelines/temporary-admission-to-the-masters-study-programme

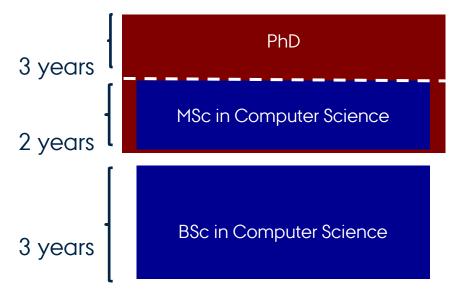




PHD STUDIES?

Apply for PhD studies!

- https://phd.nat.au.dk/programmes/computer-science/
- You receive a salary while studying!
- Apply for PhD studies directly following your Bachelor's degree, during you Master's studies or following your Master's degree.
- For deadlines see https://phd.nat.au.dk/for-applicants/
- Contact Anders Møller for info http://pure.au.dk/portal/en/amoeller@cs.au.dk









EXTERNAL COLLABORATION AND STUDENT ENTREPRENEURSHIP





EXTERNAL COLLABORATION

Types of collaboration

- Vocational Training Project
- Bachelor's project
- Master's Thesis
- In connection with a specific course

General information regarding collaboration and external partners

- Find a company and a main supervisor from AU who will be part of the project
- Check whether you need additional contracts (Fast Track), NDA's or copyright
- Create a contract for Vocational Training Project via <u>projectgenerator</u>

Further information: https://studerende.au.dk/en/studi es/subject-portals/computerscience/project-collaboration



Student Entrepreneurship at CS

HatchIT Lab

- Local student entrepreneurship hub at CS
- Office Space and access to facilities at CS Dept.
- Networking with other CS student startups
- HatchITlab.au.dk











The Kitchen AU

- Central AU Entrepreneurship hub
- Funding support
- Business developers and advisors/mentors
- Workshops and events for entrepreneurs
- Thekitchen.io







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HatchIT Lab

Student Entrepreneurship at CS





50+Student Entrepreneurs



10+ mio dkk
Investment and external funding



50+Jobs created





STUDENT JOBS

www.cs.au.dk/jobwall www.cs.au.dk/businessclub















































LIND CAPITAL







netcompany



BESTSELLER°









STIBO SYSTEMS



PRACTICAL INFOMATION





CONTRACTS

Study Contract

- Complete before signing up for first course in Master's Program
 - Also in case of temporary admission
 - You may only sign up for courses mentioned in your contract
- Revise at semiannual interviews in April and October
 - You will receive an email invitation
 - You will have a friendly chat with Andreas and Søren

Project Work Contract

 In addition to signing up for a project work / vocational training project (erhvervsprojekt) you must also make a contract

Thesis Contract

Fill out at start of thesis work

All contracts are created through: http://kontrakt.nattech.au.dk/

Steps:

- 1. Decide on course for the coming semester
- 2. Submit a master contract and have it approved
- Register for course before the deadline







SIGNING UP FOR COURSES

Sign up

- May 1-5 for courses in the Fall
- November 1-5 for courses in the Spring
- Advance approval of credit transfer is needed for courses from outside Nat-Tech,
 - Outside AU: see https://studerende.au.dk/en/studies/subject-portals/computer-science/rules-and-guidelines/credit-transfer.

For courses in the summer, see

https://studerende.au.dk/en/summeruniversity

- Outside Nat-Tech, but inside AU: see https://studerende.au.dk/en/studies/subject-portals/computer-science/rules-and-quidelines/enrolment-in-a-credit-module.
- · Apply well in advance!
- Advance approval of credit transfer is no guarantee that you will be admitted to the course!

Schedule for elective courses

- Watch out for collisions
- You may find the schedule for courses offered by the Department of Computer Science at https://timetable.au.dk/





IMPORTANT RULES

- If you follow the recommended program of study (30 ECTS per semester), take courses in the correct order (the Box Diagrams) and pass all courses at the ordinary exam or at the first scheduled re-exam then you need not worry about the study progress reform.
- If you fall behind or do not pass a course at the latest by the first reexamination, then contact us for advice and guidance on your individual study program.
- If you ignore this advice and believe that "it will be fine", it may have serious consequences!
- If you do not complete your master's program within six months after the prescribed time you are
 automatically signed out of the study program / out of the university
 https://studerende.au.dk/en/studies/subject-portals/computer-science/rules-and-guidelines/maximum-duration-of-study.
- If you fail an exam in an elective course, then that course has become mandatory! If you have
 made an erroneous choice of an elective course, please contact us for guidance immediately!





STUDENT COUNSELOR

Maja Skovgård Nielsen

www.cs.au.dk/vejleder

Possible topics

- Change of study program, delay, leave of absence, withdrawal.
- Illness.
- Study regulations
- Selecting supplementary subjects.







YOU CAN HAVE INFLUENCE!

Education Committee

Develop the study program and the course

• http://cs.staff.au.dk/boards-and-committees/education-committee/

Office Committee

Develop the study environment, student offices and campus

http://cs.staff.au.dk/boards-and-committees/office-committee/





