BACHELOR DEGREE IN IT PRODUCT DEVELOPMENT
BACHELOR’S DEGREE PROGRAM

1. Structure of the Bachelor’s Degree Program
   I. Box diagram
   II. Elective courses
2. Computer Science with a minor subject
3. External Collaboration
4. Practical information

Link to current slides: www.cs.au.dk/study
### FROM 2019 AND LATER

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>1st sem.</td>
<td>Foundations of IT Product Design (10 ECTS)</td>
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<tr>
<td></td>
<td>Introduction to programming (10 ECTS)</td>
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<td></td>
<td>Calculus alpha (10 ECTS)</td>
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<td>2nd sem.</td>
<td>Database Systems (5 ECTS)</td>
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<td>The Web of Things (5 ECTS)</td>
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<td>IT Product Design Project (20 ECTS)</td>
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<td>3rd sem.</td>
<td>Physical Computing (10 ECTS)</td>
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<td>Human-Computer Interaction (10 ECTS)</td>
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<td></td>
<td>Software Engineering and Architecture (10 ECTS)</td>
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<tr>
<td>4th sem.</td>
<td>Experimental System Development (10 ECTS)</td>
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<td></td>
<td>Computer Architecture, Networks and Operating Systems (10 ECTS)</td>
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<td></td>
<td>Introductory Statistics and Data Analysis using R (5 ECTS)</td>
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<td>Organizing and Business Models for IT Innovations (5 ECTS)</td>
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<td>5th sem.</td>
<td>Design as Products, Services, Systems and Experiences (10 ECTS)</td>
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<td>Distributed Systems and Security (10 ECTS)</td>
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<td></td>
<td>Elective (10 ECTS)</td>
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<td></td>
<td>Algorithms and data structures (10 ECTS)</td>
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<td>Philosophy and Ethics of Computer Science and IT Product Development (5 ECTS)</td>
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<td>6th sem.</td>
<td>Shape-changing Objects and Spaces (10 ECTS)</td>
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<td>Bachelor's Project (15 ECTS)</td>
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<td>Calculus alpha</td>
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**Legend:**
- **Yellow**: Auxiliary subject
- **Green**: Compulsory (only IT)
- **Blue**: Compulsory (IT & CS)
- **Blue-green**: Elective
Note that courses from Arts require skill academic writing and text analysis in the tradition of humanities.

RECOMMENDED ELECTIVES

Computer Science
- Algorithms and Data Structures (10 ECTS)
- Interactivity and Computer Mediation – Concepts, Theories, Methods, Cases (10 ECTS) [master]
- Multimodal Interaction (10 ECTS) [master]
- Engineering Interactive Technologies (10 ECTS) [master]

Tech (Computer Engineering)
- Digitale kredsløb (5 ECTS)
- Computerspilteknologier (5 ECTS)

Arts (Digital Design & Information Science)
- Data og digital kultur (10 ECTS) [master]

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!
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 project generator

Further information:
https://studerende.au.dk/en/studies/subject-portals/computer-science/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
HatchIT Lab
Student Entrepreneurship at CS

50+
Student Entrepreneurs

10+ mio dkk
Investment and external funding

50+
Jobs created
PRACTICAL INFORMATION
CONTRACTS

Study Contract
- Complete the contract before signing up for the first course(s)
  - 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
3. 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,
  • 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/

For courses in the summer, see https://studerende.au.dk/en/summeruniversity
ADVICE

• 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 ua@cs.au.dk or the student counselor for advice and guidance on your individual study program as soon as possible. The earlier you reach out the better.

• You have a max study time, 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 ua@cs.au.dk or the student counselor for guidance immediately!
Maja Skovgård Nielsen

• [www.cs.au.dk/vejleder](http://www.cs.au.dk/vejleder)
• [Studievejledning4.nat-tech@au.dk](mailto:Studievejledning4.nat-tech@au.dk)

Possible topics

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