AALBORG UNIVERSITET

Semester description for:
3rd semester - Master's in science in Medicine with Industrial Specialisation - Fall 2025

Semester details
The study curriculum: Master of Science in Medicine with Industrial Specialisation

Semester framework theme
The second year of the Master's (3rd and 4th semester) focuses on independently performing relevant scientific studies, which take place in a research environment, abroad, and/or in a public or private company. The theme of the project is freely chosen by the students, but will built on acquired knowledge and skills obtained throughout the earlier semesters.
Upon completion of the Master's project, the student should be at a level to enter the academic/industrial market.

Semester organisation and time schedule
The semesters are organised so students either perform two 30 ECTS projects or one 60 ECTS project. These are assessed in the form of a written report that is examined by an oral examination with internal and/or external censors.
During the semesters, the student will work on the scientific project with adequate supervision from their supervisor. All master's projects must be approved by the supervisor and the study leader.
If master students collaborate with external partners (outside the Institute for Health Science and Technology; HST), an external contact person and a HST supervisor are required.
No courses are planned during this period.
During the autumn, the students are expected to participate in semester group meetings and the event MedIS opportunity, which will serve as the status seminar.

Semester coordinator and secretariat assistance
Semester coordinator: Simone Riis Porsborg, sriis@hst.aau.dk, Department of Health Science and Technology
Semester secretary: Emma Louise Nørgaard Reberholt, elnr@hst.aau.dk, Department of Health Science and Technology
Student representative: Please check semester details on Moodle.

Master's Thesis / Kandidatspeciale

Profile
Biomedicine, BM; Translational Medicine, TM; Medical Market Access, MMA
Master's Thesis / Kandidatspeciale
30 ECTS project module or 60 ECTS project module

Location
Master, Medicine with Industrial Specialisation, 3rd Semester
Study Board for Medicine

Module coordinator
Simone Riis Porsborg
sriis@hst.aau.dk
Department of Health, Science and Technology.

Type and language
The projects should preferably be written in English, although Danish is allowed in agreement with the supervisor.

Objectives
From Curriculum:
After completing 30 ECTS 3rd semester project, the student is expected to:

KNOWLEDGE

- Explain the background of a medical problem

SKILLS

- Design a scientific study to address the identified medical problem
- Formulate and test a scientific hypothesis
- Argue for the choice of methods applied in the project
- Presentation of the project written and orally

COMPETENCES

- Reflect on the relevance of the scientific medical problem and the project results
- Ability to manage the project in collaboration with groups of relevant professionals

After completing 60 ECTS Master's Thesis project, the student is expected to:
SKILLS

- Design a scientific study to address the identified medical problem
- Formulate and test a scientific hypothesis
- Select methods to address the medical problem and argue for the choice
- Compose and critically evaluate a timeline of the project
- Use digital tools to illustrate and/or present data in a condensed form
- Present the project written and orally
- Adaptability when encountering problems within research-based project work that require new solutions

COMPETENCES

- Independently plan and design, on the basis of a well-documented problem, a scientific study using relevant scientific methods
- Explain the four main phases of a project process: Project start-up, project planning, project planning implementation, and project completion
- Critically evaluate existing studies relevant to the identified scientific problem
- Criticize the design of the scientific study and discuss potential pitfalls and improvements
- Be critical of own findings and discuss own results
- Reflect on the process of own learning in relation to the realisation of the project
- Reflect on own need for development and suggest steps to facilitate this development

Academic content and conjunction with other modules/semesters
The 3rd and 4th semester requires the student to use the skills and knowledge acquired from their bachelor's and the first 2 semesters of their Master's. New skills and techniques are often introduced during this time.

Scope and expected performance.
60 ECTS = 1800 hours
30 ECTS = 900 hours

Participants
Students on 3rd and 4th semester Medicine with Industrial Specialisation (MedIS)
Biomedicine
Translational Medicine
Medical Market Access

Prerequisites for participation
A completed bachelor's degree (B.Sc.) in Medicine, Biotechnology, Molecular Medicine, MedIS, or similar.

Module activities (course sessions etc.)
This module does not include any planned teaching activities. The student is expected to work full-time with the help and guidance of their supervisor to achieve the research aims outlined in the project description. It is expected that the student identifies their own need for learning and seeks out learning activities meeting these.

Examination (3rd semester project only)
Oral individual or group examination
During the exam both the supervisor and maybe co-supervisor will be present together with an Internal (for 3rd)
During the project period, the students will write a project and hand it in using "Digital Eksamen" –
The exam is initiated by the students giving a scientific presentation of their project, followed by questioning by the examiners.
There is 45 min available in total for each student, covering: student presentations, questioning by examiners and grading. As an example, a group of 2 students will be examined for 2 x 45 min = 90 min covering student presentations, questioning by examiners, and grading.
The project will be evaluated using the 7-point grading scale, and the grade will be given individually and based on an overall assessment of:

- The written project
- The individual student's presentation of the project
- The individual performance of the students during the oral examination

For further information about the examination, we refer to Digital Eksamen (DE).