

Experimental Master Thesis in Molecular Health Science (60 ECTS)

Title	Experimental Master Thesis in Molecular Health Science (60 ECTS)
Semester	F2025
Master programme in	Molecular Health Science
Type of activity	Master Thesis
Teaching language	English
Study regulation	Read about the Master Programme and find the Study Regulations at ruc.dk Læs mere om uddannelsen og find din studieordning på ruc.dk

REGISTRATION AND STUDY ADMINISTRATIVE

Registration	Tilmelding sker via STADS-Selvbetjening indenfor annonceret tilmeldingsperiode, som du kan se på Studieadministrationens hjemmeside Registration through STADS-Selvbetjening within the announced registration period, as you can see on the Studyadministration homepage .
Number of participants	
ECTS	60
Responsible for the activity	Lotte Jelsbak (ljelsbak@ruc.dk)
Head of study	Lotte Jelsbak (ljelsbak@ruc.dk)
Teachers	
Study administration	INM Registration & Exams (inm-exams@ruc.dk)
Exam code(s)	U60745

ACADEMIC CONTENT

The exemplary nature of the master's thesis ensures that the students acquire knowledge, skills and competences that they can use in a wider context than the master's thesis itself. The students are free to choose the contents of the master's thesis within the framework of the study regulation and its objectives. The ability to critically assess the quality of their own efforts and their own knowledge base in relation to a given research question is an important objective of the participatory and problem-oriented thesis work. The process is supported by one or more academic supervisors. The supervisor(s) help to ensure that the thesis work meets the requirements of the study regulation.

Overall objective

In the thesis report, the student must document knowledge and skills in using scientific theories and methods while working with a limited, academic and relevant research question. The student must document skills in analysing, categorising, discussing, arguing, evaluating and reflecting on a scientific basis as well as being able to choose and relate critically to sources, literature, theory and methods used in the master's thesis. The master's thesis must demonstrate the students' proficiency in communicating about an academic study to colleagues and to demonstrate competences in initiating, managing and completing a longterm academic study and writing process.

The Master's thesis work generally takes place in groups of up to 2 students. Students have the right to complete the thesis work individually.

Detailed description of content

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competences in initiating, managing and completing a longterm academic study and writing process.

Course material and Reading list Relevant literature for the project is decided by the students in collaboration with the supervisor(s), but within the overall subject of the education. It is expected that the students conduct independent literature searches.

Master Thesis 60 ECTS / 1620 hours

- Overall plan and expected work effort
- Master Thesis Seminar: 4 hours
 - Exam and assessment: 1 hour
 - Supervision: 35 hours
 - Report writing: 250 hours
 - Literature search: 200 hours
 - Practical project work (laboratory, model design, analysis, field work): 1090 hours
 - Exam preparation: 40 hours

Format

All master thesis' processes will include ongoing dialogue-based (oral) evaluation between the students and the supervisor. Both students and supervisors are expected to provide constructive feedback and viewpoints during the process.

Evaluation and feedback

Feedback concerning the academic content and progression, process and collaboration. When the master thesis is handed in, there will also be an evaluation through a questionnaire in SurveyXact concerning the master thesis process and the master program in general. The Study Board will handle all evaluations.

Furthermore, students can, in accordance with RUCs 'feel free to state your views' strategy through their representatives at the study board, send

evaluations, comments or insights from their project process to the study board during or after the master thesis process.

Programme

ASSESSMENT

After completing the master thesis, the students will be able to:

- discuss and analyze the selected subject areas and understand and reflect on one's own thesis research and how it fits into an academic context
- discuss the academic genre with the academic target audience for which the master's thesis is intended
- use and master scientific theories and methods while working with a specific, academic and relevant research question
- identify scientific issues
- analyze, categorize, discuss, argue, reflect and evaluate complex data on a scientific basis
- critically view and select scientific sources, literature, theory and methods
- discuss and participate in academic argumentation.
- write in accordance with academic text norms and for an academic target group
- use experimental methods in a research process
- initiate, manage and complete a lengthy academic research and writing process
- identify and take responsibility for their own professional and written language development and specialization
- select, adapt, improve or design experimental methods in problem solving processes, teaching and working environment.

Overall
learning
outcomes

Form of
examination

master's thesis exam based on the written product and the oral exam

The master's thesis can be written individually or in a group. Permitted group size: 2-3 students.

The oral exam is individual for students that have written the thesis alone or students that have requested an individual exam. All other oral master's thesis exams are conducted as group exams.

The assessment is individual and based on the student's individual performance.

The assessment is an assessment of the master's thesis and the oral performance.

The character limits of the master's thesis are:

For 1 student: 48,000-192,000 characters, including spaces.

For 2 students: 48,000-192,000 characters, including spaces.

For 3 students: 48,000-204,000 characters, including spaces.

The character limits include the cover, table of contents, summary, bibliography, figures and other illustrations, but exclude appendices.

The master's thesis must include a summary.

The summary can either be written in English or Danish.

The summary is included in the overall assessment.

Time allowed for the exam including time used for assessment for:

1 student: 60 minutes.

2 students: 120 minutes.

3 students: 150 minutes.

Writing and spelling skills in the thesis are part of the assessment.

Permitted support and preparation materials at the oral exam: Outline on maximum one A4 size-page and presentation material.

Assessment: 7-point grading scale

Moderation: External examiner

Form of Re-examination
Type of examination in special cases

Samme som ordinær eksamen / same form as ordinary exam

Examination and assessment criteria	<p>The thesis is evaluated based on the students ability to discuss and analyze the selected subject areas and understand and reflect on one's own thesis research and how it fits into an academic context, use and master scientific theories and methods while working with a specific, academic and relevant research question, analyze, categorize, discuss, argue, reflect and evaluate complex data on a scientific basis, critically view and select scientific sources, literature, theory and methods, write in accordance with academic text norms and for an academic target group, use experimental methods in a research process.</p>
	<p>The assessment of the oral exam is based on the student's ability to meet the criteria mentioned above and their ability to</p> <ul style="list-style-type: none"> • clearly present and communicate the scientific content of the project • engage in a scientific dialogue and discussion with the supervisor and assessor <p>Furthermore, whether the performance meets all formal requirements in regard to both for the written og oral exam</p>

Exam code(s) Exam code(s) : U60745