

April 2024

Regulations for the Master's Degree Programme in Quantitative Biology and Disease Modelling

This document contains, supplemented with the University of Copenhagen course catalog (<https://kurser.ku.dk/>), descriptions of the courses and exams of the Master's Degree Programme of Quantitative Biology and Disease Modelling conducted at the Faculty of Health and Medical Sciences, University of Copenhagen.

Further information about the Master's Degree Programme in Quantitative Biology and Disease Modelling is available through the Technical University of Denmark (DTU) webpage in this link: <https://studieinformation.dtu.dk/english/Master-of-Science-in-Engineering/Quantitative-Biology-and-Disease-Modelling/Programme-specification>

Course and exam overview

The MSc in Quantitative Biology and Disease Modelling comprises the following courses and exams offered by the Faculty of Health and Medical Sciences at The University of Copenhagen:

1st and 2nd semester:

Course title and code	Course certificate (exam 1) and code	ECTS	Exam (2) and code	ECTS
<u>Pathophysiology</u> (Mandatory course) SMTK12011U			<u>Exam:</u> <u>Pathophysiology</u> SMTK12011E	10
<u>Laboratory Animal Science Function ABD</u> (Elective course) SVEK17001U			<u>Exam:</u> <u>Laboratory Animal Science Function ABD</u> SVEK17001E	7,5

3rd and 4th semester:

Course title and code	Course certificate (exam 1) and code	ECTS	Exam (2) and code	ECTS
<p><u>Advanced Physiological Modelling</u> (Elective course)</p> <p>SMTK20001U <i>(The course is offered for MSc in Quantitative Biology and Disease Modelling the last time in fall 2024)</i></p>	<p><u>Course certificate in Advanced Physiological Modelling</u></p> <p>SMTK20001E</p>	2,5	<p><u>Exam: Advanced Physiological Modelling</u></p> <p>SMTK20002E</p>	10
<p><u>Physics of Molecular Diseases</u> (Elective course)</p> <p>NFYK14009U <i>(The course is offered for MSc in Quantitative Biology and Disease Modelling the last time in spring 2025)</i></p>			<p><u>Exam: Physics of Molecular Diseases</u></p> <p>NFYK14009E</p>	7,5
<p><u>Pharmacometrics</u> (Mandatory course)</p> <p>SKBK18001U <i>(The course is offered for MSc in Quantitative Biology and Disease Modelling the last time in fall 2024)</i></p>			<p><u>Exam: Pharmacometrics</u></p> <p>SKBK18001E</p>	7,5
<p><u>Master's Thesis 30 ECTS</u></p> <p><i>(The course is offered for MSc in Quantitative Biology and Disease Modelling the last time in spring 2025)</i></p>			<p><u>Exam: Master's Thesis</u></p> <p>SKBK19001E</p>	30

Course title and code	Course certificate (exam 1) and code	ECTS	Exam (2) and code	ECTS
<u>Master's Thesis</u> <u>32,5 ECTS</u> <i>(The course is offered for MSc in Quantitative Biology and Disease Modelling the last time in spring 2025)</i>			<u>Exam: Master's Thesis</u> SKBK19002E	32,5
<u>Master's Thesis</u> <u>35 ECTS</u> <i>(The course is offered for MSc in Quantitative Biology and Disease Modelling the last time in spring 2025)</i>			<u>Exam: Master's Thesis</u> SKBK19003E	35

Instruction and exam languages

The MSc programme is conducted in English.

Master's Thesis

The Master's Thesis is the final assignment of the Master's Study Programme. The objective is to give the student an opportunity to use the acquired knowledge independently in a major assignment.

The supervision process includes communication of the learning goals of the Master's Thesis. The Master's Thesis and its oral defence shall document that the student satisfies Programme objectives with regard to the use, elaboration and dissemination of specialised knowledge.

The Master's Thesis may not be initiated until the student has completed courses equivalent to 70 ECTS points of the Master's Programme and this is confirmed by the DTU Study Administration.

When assessing the Master's Thesis, the academic contents shall carry the greatest weight. The student's ability to express her or himself is also assessed, but weighs less, while correct spelling is only of limited importance. The report and oral exam are assessed together as one unit.

Exemptions from these provisions

In exceptional circumstances, the Study Board at DTU may grant exemptions from any curriculum provisions within the sole remit of the Study Board.

Date of commencement

These regulations take effect from 1. September 2024.