Degree Programme	Master of Science in Life Sciences (MSLS)	
Specialisation	Applied Computational Life Sciences	
Module	Master's Thesis	
Code	MSc_V5_M	
ECTS Credits	30	
Workload	900 h	
Module Coordinator	Name	Dr. Manuel Gil
	Phone	+41 (0) 58 934 57 44
	Email	manuel.gil@zhaw.ch
	Address	ZHAW Zürcher Hochschule für Angewandte Wissenschaften Life Sciences and Facility Management Schloss 1 8820 Wädenswil
Learning Outcomes and Competences	The general objective of the Master's thesis is to develop the student's professional and interdisciplinary skills and the ability to work in qualified jobs in an industrial or academic environment. The student demonstrates with the Master's thesis that he/she is skilled in independently applying computational methods to solve a given problem in a specific life sciences context. The quality of the Master's thesis is expected to be on the level of a peer-reviewed publication. Furthermore, the student is able to explain his/her research project in precise scientific terms, orally as well as in written form. The student is able to analyse a problem taking relevant scientific methods and literature into account (developing a scientific approach, concept, hypothesis, etc.) can plan, implement, evaluate and carry out an original independent research project individually using adequate, scientific methods (project management) is able to critically interpret data, models and results can draw final conclusions based on the evidence in the Master's thesis and can present results following scientific principles	
Teaching / Learning Methods	The Master's thesis is conducted at a selected research group or an external research group in industry or academia. The work in a research group is to experience direct professional and methodological context of future fields of activity. The student works individually on the Master's thesis project and develops an appropriate solution for a predefined problem in terms of content and subject matter at a high level of self-competences and complying with the principles of scientific work as well as with ethical responsibility. The Master's thesis consists of the following tasks	
	CreatScien	tion of an independent, written piece of work in an expert environment tific presentation and discussion of results in front of experts ion of a scientific poster

01.10.2021 - 1/2 -

Assessment of Learning Outcome	 Milestone 1 "literature research / disposition" Milestone 2 "experimental strategy" Milestone 3 "final conclusions" Oral presentation (pass/fail) 	
Language	English	
Comments	Topics and supervisors can be found on the homepage: https://www.zhaw.ch/de/lsfm/studium/master-of-science-in-life-sciences/vertiefung- applied-computational-life-sciences/masterarbeit/ Further information can be found in the document "Brochure for Master's Thesis MSLS": https://www.zhaw.ch/de/lsfm/studium/studiweb/master-ls/masters-thesis/	
Last Update	15.09.2021	

01.10.2021 - 2/2-