Master in Life Sciences

A cooperation between BFH, FHNW, HES-SO, ZFH

Degree Programme	Master of Science in Life Sciences (MSLS)	
Specialisation	Chemistry for the Life Sciences	
Module	Master's Thesis	
Code	MSc_V3_M	
ECTS Credits	40	
Workload	1200 h	
Module Coordinator	Name	Prof. Dr. Jürgen Stohner
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Learning Outcomes and Competences	 The objective of the Master's thesis is to enhance the student's scientific knowledge and competences and to increase professional, theoretical and methodological qualifications that develop the student's professional and interdisciplinary skills and the ability to work in related jobs in an industrial or academic environment. The student demonstrates with the Master's thesis that he/she is skilled in independently transforming scientific theories and methods to solve a given problem. 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 literature into account (developing a scientific standards) can plan, implement, evaluate and carry out an original independent research project individually using adequate, scientific methods (project management) is able to critically interpret acquired experimental data can draw final conclusions based on the evidence in the Master's thesis and can present results following scientific principles 	
Teaching / Learning Methods	responsible f external rese experience d The student appropriate s at a high leve work as well	thesis is conducted at a selected research group of the institute for the Master specialization or when agreed with the supervisor at an earch group in industry or academia. The work in a research group is to irect professional and methodological context of future fields of activity. works individually on the Master's thesis project and develops an solution for a predefined problem in terms of content and subject matter el of self-competences and complying with the principles of scientific as with ethical responsibility. The Master's thesis is an independent, of work in an expert environment.

	The student presents his/her results in a scientific manner and is able to discuss the results in front of experts. He/she creates a poster following the corresponding research group's standards.	
Assessment of Learning Outcome	 Milestone 1 "proposal / literature research" Milestone 2 "experimental strategy" Milestone 3 "experimental strategy" Milestone 4 "final conclusions" Oral presentation (pass/fail) 	
Language	German English	
Comments	Topics and supervisors can be found on the homepage: <u>https://www.zhaw.ch/de/lsfm/studium/master-of-science-in-life-sciences/vertiefung-</u> <u>chemistry-for-the-life-sciences/masters-thesis/</u> Further information can be found in the document "Brochure for Master's Thesis MSLS": <u>https://www.zhaw.ch/de/lsfm/studium/studiweb/master-ls/masters-thesis/</u>	
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