

Structure and content of the qualification concept (scientific and professional) of the MCLS Doctoral Training Program in the Learning Sciences

Component	Description
<p>Perspectives on Learning Sciences</p>	<p>Students are expected to have attended two content-related courses (1a-1g) and two methodology courses (1h) by the end of their entire study period.</p> <p>1a Course on Neuro-Cognitive Mechanisms of Adaptive Control and Plasticity 1b Course on Conceptual Development and Conceptual Change 1c Course on Emotion, Cognition and Learning 1d Course on Self-Regulation vs. Other-Regulation 1e Course on Organizational Learning and Learning Social Systems 1f Course on Technology-Enhanced Learning and Collaboration 1g Course on Behavioral, Affective and Cognitive Dysfunctions 1h Course on Specific Methodologies for Measuring Learning and Change</p>
<p>Key Qualifications</p>	<p>Key qualifications are domain-general skills necessary for scientific work, especially for research and teaching. Students should have taken two courses from this module <u>by the end of their entire study period</u>.</p> <p>2a Philosophy of science and implications for scientific work 2b Scientific writing 2c Scientific presentation and discussion 2d Teaching (qualification for higher education didactics) 2e Acquisition of social competencies (including leadership skills) 2f Ethics of Scientific Research</p>
<p>Doctoral Colloquium</p>	<p>The interdisciplinary colloquium is offered every semester. Every doctoral student is expected to present their work at least once a year in the research colloquium.</p>
<p>Talks by guest professors</p>	<p>Doctoral students are requested to attend at least one guest scientist's presentation per year. Students can take a leading role in identifying, inviting and taking care of at least one guest scientist during their participation in the doctoral program.</p>
<p>Participation at conferences</p>	<p>Students are encouraged to attend at least three conferences. Given the interdisciplinary focus, it is recommended that there should be two participations at international conferences closely related to the "primary discipline" – one at the beginning and one towards the end of the doctoral study period with an own presentation; the third conference should represent another discipline (e.g. the discipline of the second advisor) or it should be an interdisciplinary conference.</p>
<p>Report and coaching</p>	<p>Recommended are goal setting and coaching sessions between doctoral student and both advisors within the first 3 months of program membership, an annual report and a coaching session to evaluate the progress in the previous year and to determine the goals for the upcoming period.</p>



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Research stays	Research stays abroad are recommended and should be supported by the advisors.
Doctoral research	The doctoral research typically includes one or more empirical studies with planning, conduction, and data analyses phases . The thesis writing phase should begin within the fifth semester. The thesis should be completed at the end of the sixth semester.