



# Master in Life Sciences

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

<b>Module</b>	<b>Landscape development and planning</b>
<b>Code</b>	MSLS_AF-56
<b>Degree Program</b>	Master of Science in Life Sciences (MSLS)
<b>ECTS Credits</b>	5
<b>Workload</b>	150 h: Contact 45 h; Group Exercise in the field 40 h; Self-study 65 h
<b>Module Coordinator</b>	<p><b>Name</b> Jean-Jacques Thormann</p> <p><b>Phone</b> +41 31 910 21 47</p> <p><b>Email</b> <a href="mailto:Jean-jacques.thormann@bfh.ch">Jean-jacques.thormann@bfh.ch</a></p> <p><b>Address</b> Bern University of Applied Sciences, School of Agricultural, Forest and Food Sciences, Laenggasse 85, 3052 Zollikofen</p>
<b>Lecturers</b>	<ul style="list-style-type: none"> <li>• Evelyn Coleman Brantschen</li> <li>• David Raemy</li> <li>• Jean-Jacques Thormann</li> <li>• Guest lecturers</li> </ul>
<b>Entry Requirements</b>	None.
<b>Learning Outcomes and Competences</b>	<p>After completing the module students will be able to:</p> <ul style="list-style-type: none"> <li>• understand and apply the principles of land use planning</li> <li>• analyze the development of rural areas and to draw conclusions for general planning, taking account of climate change and societal demands</li> <li>• identify societal demands on landscape development and to propose goal-oriented solutions</li> <li>• develop and implement a land use plan in mountain rural areas</li> </ul>
<b>Module Content</b>	<p>Lecturers give an introduction of the selected topic and contributions from different disciplines to approach key issues related to that subject, including:</p> <ul style="list-style-type: none"> <li>• Basics of land use planning in rural areas</li> <li>• Facts and figures, landscape development policies</li> <li>• Property regimes and their influence on natural resource management systems</li> <li>• Implications of climate change and changes in societal needs on management systems (adaptive management)</li> <li>• Case study in a mountain region: Design of a local landscape development plan containing an interdisciplinary situation analysis, development of scenarios for the future and of policy and management recommendations for the sustainable development of the region</li> </ul>

<b>Teaching / Learning Methods</b>	A combination of lectures, individual work and teamwork with disciplinary/topical subgroups, and seminars with individual presentations and interdisciplinary group work for synthesis report. A final field week in a mountain region in Switzerland
<b>Assessment of Learning Outcome</b>	1) Presentation of a local landscape development plan at the end of the field week (30%) 2) Report of the landscape development plan (70%)
<b>Bibliography</b>	An updated list of selected references and readings will be made available one month before the start of the course; students are expected to complement these sources with their individual research of literature and other information.
<b>Language</b>	English, German (fieldwork)
<b>Comments</b>	There will be a field week (Monday - Friday) in calendar week 25 in June
<b>Last Update</b>	20.03.2023/ Loredana Storno on behalf of Karin Zbinden