



Master in Life Sciences

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

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

Teaching / Learning Methods	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
Assessment of Learning Outcome	1) Presentation of a local landscape development plan at the end of the field week (30%) 2) Report of the landscape development plan (70%)
Bibliography	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.
Language	English, German (fieldwork)
Comments	There will be a field week (Monday - Friday) in calendar week 25 in June
Last Update	04.02.2021 / Jean-Jacques Thormann