# Master in Life Sciences

## Landscape development and planning

<table>
<thead>
<tr>
<th>Module</th>
<th>Landscape development and planning</th>
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<tbody>
<tr>
<td>Code</td>
<td>MSLS_AF-56</td>
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<tr>
<td>Degree Program</td>
<td>Master of Science in Life Sciences (MSLS)</td>
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<tr>
<td>ECTS Credits</td>
<td>5</td>
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<tr>
<td>Workload</td>
<td>150 h: Contact 45 h; Group Exercise in the field 40 h; Self-study 65 h</td>
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### Module Coordinator

<table>
<thead>
<tr>
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<th>Jean-Jacques Thormann</th>
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<tbody>
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<td>Bern University of Applied Sciences, School of Agricultural, Forest and Food Sciences, Laenggasse 85, 3052 Zollikofen</td>
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### Lecturers

- Evelyn Coleman Brantschen
- David Raemy
- Jean-Jacques Thormann
- Guest lecturers

### Entry Requirements

None.

### Learning Outcomes and Competences

After completing the module students will be able to:

- 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

Lecturers give an introduction of the selected topic and contributions from different disciplines to approach key issues related to that subject, including:

- 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