



<b>Module</b>	<b>Advances in Agricultural Sciences</b>
<b>Code</b>	MSLS_AF-24
<b>Degree Program</b>	Master of Science in Life Sciences (MSLS)
<b>ECTS Credits</b>	5
<b>Workload</b>	150 h: Contact 35 h; Self-study 115 h
<b>Module Coordinator</b>	<p><b>Name</b> Dr. Hannes Jörg</p> <p><b>Phone</b> +41 31 910 22 64</p> <p><b>Email</b> <a href="mailto:hannes.joerg@bhf.ch">hannes.joerg@bhf.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>• Dr. Hannes Jörg</li> </ul>
<b>Entry Requirements</b>	Students must have specified their own Master's thesis project (together with their principal advisor) and submitted a copy of their project definition to the Head of the Master's degree program.
<b>Learning Outcomes and Competences</b>	<p>After completing the module students will be able to:</p> <ul style="list-style-type: none"> <li>• present and explain important advances in the agricultural sciences as they are relevant with respect to (i) their own field of investigation and (ii) the mutual understanding across different subfields within the agricultural sciences;</li> <li>• discuss with other scholars important developments within the agricultural sciences.</li> </ul>
<b>Module Content</b>	<p>The module covers selected topics of cutting-edge research and advances in agricultural sciences, technology and applications in the domains of plant science, animal science and agricultural and forestry economics. It will be adjusted to the current topics and research agendas in these fields and communicated at the start of the module.</p> <p>The content of the self-study is defined in accordance with the student's principal advisor and can be adapted to cover recent developments and publications in the agricultural sciences.</p>
<b>Teaching / Learning Methods</b>	<ul style="list-style-type: none"> <li>• Seminar under the umbrella of a given topic with students, presentations and discussions of selected journal articles</li> <li>• Individual student's paper (or other deliverable) on a specific topic in the field of applied agricultural or forestry sciences</li> </ul>
<b>Assessment of Learning Outcome</b>	<ol style="list-style-type: none"> <li>1) Seminar presentations and discussions (30%)</li> <li>2) Individual student's paper or examination on a specific topic (70%)</li> </ol>
<b>Bibliography</b>	<p>Key references include:</p> <p>Advances in agronomy (latest volume), Elsevier, Amsterdam.</p> <p>Forests, trees and livelihoods (latest volume), Taylor and Francis Abingdon.</p> <p>The State of Food and Agriculture (latest volume), FAO, Rome.</p> <p>Steinfeld H, Gerber P, Wassenaar T.D, Castel V, 2006. Livestock's long shadow: Environmental issues and options. FAO, Rome.</p> <p>Handbook of Agricultural Economics (latest volume), Elsevier, Amsterdam.</p> <p>Yearbook of Socio-Economics in Agriculture (latest volume), SGA, Zurich.</p>
<b>Language</b>	English

<b>Comments</b>	Duration 1 semester: 2 hours general introduction; 1-3 days final seminar The following sequences are compulsory for students: Participation at the introduction session for two hours and at the final seminar for one full day. For details on compulsory sequences, please refer to the detailed schedule of the module, which will be uploaded on Moodle 4 weeks before the start of the module.
<b>Last Update</b>	23.05.2016 / Hannes Jörg