



Master in Life Sciences

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

Module	Advances in Agricultural and Forest Sciences
Code	MSLS_AF-24
Degree Program	Master of Science in Life Sciences (MSLS)
ECTS Credits	5
Workload	150 h: Contact 24 h; Self-study 126 h
Module Coordinator	<p>Name Dr. Lindsey Norgrove</p> <p>Phone +41 31 910 21 94</p> <p>Email lindsey.norgrove@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"> • Dr. Lindsey Norgrove
Entry Requirements	Students must either have specified their own Master's thesis project (together with their principal advisor) or have identified suitable content for the module and secured the agreement of the module coordinator or another advisor for the purpose of the module.
Learning Outcomes and Competences	<p>After completing the module students will be able to:</p> <ul style="list-style-type: none"> • explain important advances in the agricultural and forest sciences as they are relevant with respect to (i) their own field of investigation and (ii) the mutual understanding across different subfields within agricultural and forest sciences; • discuss with other scholars the important developments within agricultural and forest sciences.
Module Content	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. 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 and forest sciences.
Teaching / Learning Methods	<ul style="list-style-type: none"> • Seminars with presentations by students and subsequent discussions. Students are recommended to practise their presentations in pairs before the seminars. • Individual student's paper (or other deliverable) on a specific topic in the field of applied agricultural or forestry sciences
Assessment of Learning Outcome	<ol style="list-style-type: none"> 1) Seminar presentation (30%) 2) Individual student's paper or examination on a specific topic (70%)
Bibliography	<p>Key references include:</p> <p>Advances in Agronomy (latest volume), Elsevier, Amsterdam, https://www.sciencedirect.com/bookseries/advances-in-agronomy</p> <p>Forests, Trees and Livelihoods (latest volume), Taylor and Francis, Abingdon, https://www.tandfonline.com/loi/tftl2</p> <p>Global Change Biology(latest volume), John Wiley & Sons, https://onlinelibrary.wiley.com/journal/13652486</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>

Language	English
Comments	Duration 1 semester: 1-3 days final seminar The following sequences are compulsory for students: Participation 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.
Last Update	03.02.2023 / Lindsey Norgrove