Module	Conservation of natural- and agro-ecosystems
Code	MLS_S18
Degree Program	Master of Science in Life Sciences (MSLS)
Cluster	Environment
Specialization	Natural Resource Management
ECTS Credits	4
Workload	120 h: Contact & Field work 56 h; Self-study 64 h
Module Coordinator	Name Claude Fischer
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Lecturers	Pascal Boivin, Claude Fischer, Patrice Prunier (HEPIA)
Entry Requirements	Bachelor in LS, Agronomy or Natural resource management, or equivalent
Learning Outcomes and Competences	After completing the module students will be able to elaborate a conservation management plan which include:
	Identify stakes of ecosystem conservation and sustainable exploitation
	 Determine and identify factors implicated in natural- and agro- ecosystem conservation;
	Define objectives of ecosystem conservation and sustainable exploitation;
	Develop monitoring systems.
Module Content	 Reminding legal frames of conservation of natural- and agro-ecosystems (biodiversity strategy, LAT, LPE, action plan in Switzerland)
	Soil and water conservation processes (in natural and agricultural systems)
	Biodiversity conservation (at different levels: landscape, plant, animal and genetic)
	 Evaluation tools (endangered species, invasive species, protected areas), habitats and networks
	Strategy of species introduction for conservation purposes.

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Teaching / Learning Methods	 Lectures Individual and group exercises Case-studies / projects Field trips (mandatory) Active participation in the module is requested
Assessment of	Examination: Report(s) produced during the S-module, 100% of grade
Learning Outcome	Reassessment: oral/written exam within four weeks after the publication of the grades.
Bibliography	Scherr, S.J. and J.A. McNeely. 2008. Biodiversity conservation and agricultural sustainability: toward a new paradigm of 'ecoagriculture' landscapes. Phil. Trans. R. Soc., 363: 477-494.
	 Bianco-Canqui, H. and R. Lal. 2008. Principles of soil conservation and management. Springer, Berlin, DE. 617 pp.
	 Groves, C.R. et al. 2003. Drafting a conservation blueprint: a practitioner's guide to planning for biodiversity. Island Press. Washington DC, USA. 400 pp.
	 Sutherland, W. J., and D. A. Hill. 1995. Managing Habitats for Conservation. Cambridge University Press, Cambridge, UK. 399 pp.
	 Sayer, J. A., and B. M. Campbell. 2004. The science of sustainable development. Local livelihoods and the global environment. Cambridge University Press, Cambridge, UK. 288 pp.
	Documentation: http://cyberlearn.hes-so.ch (requires a login) □
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