Module	Ecological assessment : from ecosystems to landscapes
Code	MLS_S17
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 Beat Oertli
	Phone +41 22 546 68 83
	Email <u>beat.oertli@hesge.ch</u>
	Address HEPIA-Lullier, 150 route de Presinge, 1254 Jussy
Lecturers	Franck Cattanéo, Beat Oertli (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: Characterise ecosystems and their interactions from local (ecosystem) to regional scales (complex of naturals or agro-ecosystems, catchment, landscape).
	Assess the biodiversity.
	 Explain the connections of the ecosystems and their integration in the landscape or in the catchments.
	 Evaluate the impacts of the natural and manmade disturbances on the functioning of ecosystems, landscapes and catchments.
	 Identify and characterize the environmental factors influencing the biodiversity, in particular in relation with human development.
Module Content	 Natural- and agro- ecosystems, sampling strategy and analysis. Landscape ecology; connectivity of ecosystems in catchments and landscapes integrating the various land & water-uses. From local to global disturbances (pollutions, neophytes, climate changes).
Teaching / Learning Methods	Lectures
	Individual and group exercises
	Case-studies / projects
	Field trips (mandatory)
	Active participation in the module is requested
Assessment of Learning Outcome	Examination: Report(s) produced during the S-module, and written exam • Reassessment: oral/written exam within four weeks after the publication of the grades.

02.07.2019 - 1/2-

${\sf MLS_S17-Ecological\ assessment:from\ ecosystems\ to\ landscapes}$

Bibliography	 The bibliographic framework is composed of several publications (not listed here). They are made available on the Moodle platform before the starting of the lectures. The following web sites provide several important documents. https://www.bafu.admin.ch/bafu/fr/home/themes/biodiversite.html https://www.ser.org/page/SERDocuments https://www.conservationevidence.com/ Documentation: http://cyberlearn.hes-so.ch (requires a login)
Language	English
Comments	
Last Update	02.07.2019/ Beat Oertli

02.07.2019 - 2/2-