

	Implementation schedule	Physically/Remotely	Workload (hours) On site	Autonomous work for students (max hours)	Learning outcomes
1) Project, field site and methodological introduction	Introduction to the working group's tasks within the AutoPasture project; Overview of the sampling sites; Introduction to the methodology of soil sampling (grid sampling), spatial interpolation, drone surveys and links to vegetation data	Physically/Remote	6	4	Understand connections between vegetation, animal behavior and the trophic status of an area. Organization of GPS based field sampling.
2) Software overview	Introduction in QGIS/ R (R Studio); Citavi	Physically	4	-	Integration of different software skills in the research process.
3) Sampling campaign	Work at sampling sites: GPS measurements, UAV (drone) flights, biomass sampling, vegetation survey	Physically	12		Perform field site sampling activities.
4) Sample preparation and measurement	Soil and plant biomass preparation for lab analysis, CNS analysis measurement	Physically	12		Preparation to 1 mm particle size for CNS analysis (combustion method).
5) Data analysis and visualization	Data import in QGIS/ R Studio, data wrangling, analysis (descriptive	Physically/remote	6	4	Data structuring and common data formats, R

	statistics) and geostatistical methods (Kriging, Inverse Distance Weighting)				coding and result interpretation.
6) Report	Preparation of a short report	Remote	1	4	Using of learned skills and first steps in scientific writing.