

Date	Location	Activity	Start/end	Topic
1/17/2022	Sal U	Lecture	08:15-09:00	Introduction to the course
		Lecture	09:15-11:00	Introduction to cropping systems
1/18/2022	Sal Y	Lecture	09:15-12:00	Agriculture as part of an ecological system and The concept of sustainability
	Sal X	Lecture	13:15-15:00	Concepts for increasing sustainability, such as organic farming, conservation agriculture, regenerative farming, agroecology, biodynamics, agroforestry. The role of animals on farm and in landscape (including crop livestock forestry integration)
1/21/2022	Sal U	Seminar	13:15-17:00	Literature seminar on "The ecology of cropping systems"
1/24/2022	Sal U	Lecture	08:15- 10:00	Cropping systems over time
		Lecture	10:15 - 12:00	Cropping systems in Europe + Preparation of group work: description of cropping system (starting point can be a crop/product) in region of student choices. Description of the CS, description of the challenges, possible strategies to reduce or overcome the challenges.
1/25/2022	Sal X	Lecture	08:15-10:00	Agricultural systems in the tropics and sub-tropics
		Lecture	10:15-12:00	Climate Smart Agriculture
1/26/2022	Sal X	Lecture	08:15-10:00	Agroforestry systems
1/28/2022	Sal X	Presentation	13:15-15:00	Presentation of the selected of cropping system (preliminary idea)
1/31/2022	Sal X	Lecture	08:15-10:00	Food webs and the influence on landscape on within field biodiversity
		Lecture	10:15-12:00	Population dynamics (weeds, pests and diseases)
2/1/2022	Sal X	Lecture	08:15-12:00	How diversification can be used to improve agroecosystem functions?
2/7/2022	Sal U	Lecture	08:15- 10:00	Break crop effects and long term effects of cropping systems on soil fertility and crop yield
		Lecture	10:15-12:00	Soil born fungal pathogens and the impact on cropping systems
2/8/2022	Sal X	Lecture	08:15- 10:00	Pests and crop rotations
		Lecture	10:15-12:00	Nematodes and crop rotations
2/9/2022	Sal X	Lecture	08:15- 10:00	Soil tillage in a cropping system perspective
		Lecture	10:15-12:00	Growth promoters
2/14/2022	Sal U	Lecture	08:15-10:00	The influence of weed management on weeds, pest and diseases
		Lecture	10:15-12:00	Agronomic management as driver of weed populations dynamics
2/15/2022	Sal R	Lecture	08:15-10:00	The influence of fungicides on microbial communities
		Lecture	10:15-12:00	Insecticides as drivers of population dynamics in agricultural fields
2/16/2022	Sal X	Lecture	13:15-15:00	Viruses in cropping systems
2/17/2022	Sal X	Lecture	08:15-10:00	Climate change and its effect on crops and cropping systems
		Lecture	10:15-12:00	The biology, chemistry and logistics of recycling from society to agriculture in a sustainability perspective
2/18/2022	Sal X	Presentation	13:15-16:00	Presentation of the selected of cropping system + submisison of written report
2/21/2022	Sal U	Lecture	08:15-10:00	Available methods for sustainability assessment at farm and landscape level
		Lecture	10:15-10:00	Nutrient balances as a tool for field and farm management
	Sal X	Lecture	13:15-15:00	Water management in cropping systems
2/22/2022	Sal Q	Lecture	08:15-12:00	Economic short and long term performance of cropping systems
	Sal X	Lecture	13:15-15:00	Social implications of farm structure
2/23/2022	Sal U	Lecture and exercise	08:15-12:00	Life cycle assessments
2/24/2022	Sal U	Lecture and exercise	08:15-12:00	Meet the professional; Learn about data sources and tools to work on agronomic data.
2/25/2022	Sal U	Lecture and exercise	08:15-11:00	Exercise: Sustainability assessment at farm level (based on the "A Rapid, Farmer-Friendly Agroecological Method to Estimate Soil Quality and Crop Health in Vineyard Systems" paper)
		Group work preparation	11:15-12:00	Group work
2/28/2022	Sal Q	Lecture	08:15 - 12:00	Local expert lectures

3/18/2022	Sal U	Group work presentation session 1	08:15-12:00	Presentation of the management plants (45 min each). Open session to researchers, advisors, farmers, trade etc.)
		Group work presentation session 2	13:30-16:00	Presentation of the management plants (45 min each). Open session to researchers, advisors, farmers, trade etc.)
3/22/2022	Tentamens sal 1		08:15-12:00	Exam
3/23/2022				Closing of the course