Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan

Syllabus
Course description

Course title	**Livestock production systems in mountain areas**
Course code	47300
Scientific sector	AGR/19
Degree	Smart Sustainable Agriculture Systems in Mountain Areas (SAM)
Semester	1st
Year	1st
Credits	6
Modular	*no*

Total lecturing hours	36
Total lab hours	24
Total exercise hours	
Attendance	Not compulsory but recommended. Strongly recommended the attendance to the excursions.
Prerequisites	none
Course page	

Specific educational objectives	The course will cover the following topics: 1. Structures of animal production in mountain areas, 2. Production and management systems of dairy and beef cattle, 3. Production and management systems of pigs, 4. Production and management systems of small ruminants (sheep and goat), 5. Production and management systems of poultry, horses, 6. Production and management systems of horses, 7. Production and management of non-domesticated species (e.g. deer)

Lecturer	Thomas Zanon, K1.11, thomas.zanon@unibz.it, +39 0471 017894, https://www.unibz.it/it/faculties/agricultural-environmental-food-sciences/academic-staff/person/42463-thomas-zanon
Scientific sector of the lecturer	
Teaching language	English
Office hours	
List of topics covered	
Teaching format	Frontal lectures, exercises, excursions

Learning outcomes	The learning outcomes need to refer to the Dublin Descriptors:

	Knowledge and understanding: Demonstrate a thorough understanding of the unique characteristics of livestock production systems in mountain areas. Understand the influence of climatic variables on agricultural systems in mountain areas and strategies for adaptation and resilience in animal husbandry. *Applying knowledge and understanding:* Design and evaluate sustainable management plans for livestock production in mountain area. Conduct practical evaluations and provide recommendations based on case studies of livestock production systems in mountain area *Making judgements:* Critically assess the present farming practices livestock production in mountain regions using agroecological and environmental frameworks *Communication skills:* Effectively communicate insights and findings related to livestock production using clear, evidence-based reasoning in both written and oral formats. Collaborate with peers and stakeholders during field visits, exercises, and group assignments to share knowledge and develop practical solutions. *Learning skills:* Develop the ability to independently acquire and synthesize new knowledge related to sustainable livestock production in mountain contexts. Cultivate critical thinking and problem-solving skills to address complex and evolving challenges in animal husbandry.

Assessment	Oral and lab: oral exam with review questions, oral exam to test knowledge application skills, evaluation of results
Assessment language	English
Evaluation criteria and criteria for awarding marks	clarity of answers, mastery of language (also with respect to teaching language), ability to summarize, evaluate, and establish relationships between topics;

Required readings	None
Supplementary readings	• Nutztierhaltung und -hygiene. Grundwissen Bachelor. Steffen Hoy, Matthias Gauly, Joachim Krieter, 2006. ISBN 978-3-8252-2801-9, UTB. • Tierzucht. Alfons Willam, Henner Simianer, 2011. ISBN 978-3-8252-3526-0, UTB. More references will be mentioned during the lectures.