

General Information	
Academic subject	Ecological livestock production systems
Degree course	Land and Environmental Science and Technology
Curriculum	
ECTS credits	6
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Francesco Vizzarri	francesco.vizzarri@uniba.it	AGR/19

ECTS credits details			
Basic teaching activities	4 ECTS		
Practise	2 ECTS		

Class schedule	
Period	I semester
Year	2020 - 2021
Type of class	Lecture- workshops

Time management	
Hours measured	150
In-class study hours	60
Out-of-class study hours	90

Academic calendar	
Class begins	
Class ends	

Syllabus	
Prerequisites/ requirements	Knowledge on biology and chemical
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	<p><i>Knowledge and understanding</i> Knowledge on: - main livestock farming systems for the production of milk, meat, eggs; - quality parameters; - different variability factors of quantitative and qualitative aspects and on high quality production.</p> <p><i>Applying knowledge and understanding</i> Capacity of: - description of quanti-qualitative traits of animal production; - perform a systemic approach to assess the quanti-qualitative aspects of animal production; - identify the structural organization of ecological livestock production systems</p> <p><i>Making informed judgements and choices</i> Capacity of: - to correctly orientate the search for suitable solutions to improve the quanti-qualitative characteristics of animal production. - correctly adopt suitable tools and procedures to monitor the</p>

	<p>quanti-qualitative characteristics of animal production.</p> <p><i>Communicating knowledge and understanding</i> - ability to correctly describe the procedures and techniques underlying the processes and phenomena that interact in animal production.</p> <p><i>Capacities to continue learning</i> -ability to deepen and update own knowledge on the quanti-qualitative aspects of animal production. The expected learning outcomes, in terms of knowledge and skills, are reported in Annex A of the Study Program Academic Regulations (expressed through the European Descriptors of the degree)</p>
Contents	<ul style="list-style-type: none"> - Animal breeding and environment: consistency and geographical distribution of farms - Animal nutrition: principles of nutrition and fundamentals of nutrition, chemical and nutritional formulation of feed. Principles of animal diet. - Principles of genetics: inheritance of productive traits (milk, meat, eggs). Reproduction methods. Selection and genetic improvement. - Bovine: breeding technologies for milk production. Breeding technologies for meat production. - Pigs: pig breeding technologies. - Sheep and goats: breeding technologies for sheep and goats for the production of milk and meat. - Poultry: breeding technologies for broilers and laying hens. - Qualitative characteristics of livestock production: milk, meat, eggs. <p>Wildlife-hunting sector: management principles and livestock breeding techniques.</p> <ul style="list-style-type: none"> - Ecological and organic farming systems: environmental impact from intensive and extensive farming.
Course program	
Bibliography	<ul style="list-style-type: none"> • Balasini D. – Zootecnica Generale. Calderini Edagricole. 2003. • Bittante G., Andrighetto I., Ramanzin M. - Fondamenti di Zootecnica: Miglioramento Genetico, Nutrizione e Alimentazione (Liviana Editrice). • Borgioli E. - Alimentazione e Nutrizione Animale. Ed. Edagricole. • Borgioli E. - Miglioramento genetico degli animali in produzione zootecnica. Ed. Edagricole • Casanova P., Capaccioli A., Cellini L. - Appunti di Zoologia Venatoria e Gestione della Selvaggina (Polistampa, Firenze). • Parigi Bini R. - Le Razze Bovine- Libreria Editrice Universitaria Patron). • Succi G. - Zootecnica Speciale (Clesav).
Notes	
Teaching methods	The topics of the course will be discuss with the help of Power

	Point presentations, classroom exercises and practical technical lessons in livestock farms.
Assessment methods (indicate at least the type written, oral, other)	<p>An intermediate test is required for students enrolled in the current year. The intermediate test consists of multiple choice questions and/or open during the classroom lectures, concerning the program carried out up to the date of the test. The intermediate test will be assessed on a scale of thirty. The final exam consists of an oral test on the topics developed during the hours of theoretical and theoretical-practical lectures in the classroom and in the laboratory as reported in the Study Program Academic Regulations in Land and Environmental Science and Technology and in the study plan (Annex A).</p> <p>The assessment of the student's preparation takes place on the basis of pre-established criteria, as detailed in Annex A of in the Study Program Academic Regulations in Land and Environmental Science and Technology.</p> <p>For students who have passed the intermediate test, the evaluation of the final exam is expressed as an average between the mark given to the intermediate test and the final exam.</p>
Evaluation criteria	<p><i>Knowledge and understanding</i> - descriptive abilities of the main animal production processes, of the quanti-qualitative aspects of animal productions and variability factors</p> <p><i>Applying knowledge and understanding</i> - adequate capacity for understanding and knowledge on the quantity and quality parameters of animal productions.</p> <p><i>Making informed judgements and choices</i> - ability to apply the appropriate tools for the improvement of production processes and the quanti-qualitative traits of animal production</p> <p><i>Communicating knowledge and understanding</i> - ability and capacity to describe the phenomena, the production processes and the characteristics of foods of animal origin</p> <p><i>Capacities to continue learning</i> - adequate ability to hypothesize innovative approaches for the quanti-qualitative improvement of animal productions</p>
Further information	Office hours: on Tuesday-Wednesday-Thursday, from 10,30 a.m to 13,30 a.m.