

General Information	
Academic subject	General Animal Husbandry
Degree course	Scienze e Tecnologie Agrarie L-25
Curriculum	
ECTS credits	6
Compulsory attendance	no
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Maria Selvaggi	maria.selvaggi@uniba.it	AGR/17

ECTS credits details			ETCs
Basic teaching activities			6

Class schedule	
Period	I semester
Year	II year
Type of class	Lectures Laboratory training activities

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

Academic calendar	
Class begins	28/09/2020
Class ends	22/01/2021

Syllabus	
Prerequisites/requirements	Basic knowledge of biology, biochemistry and mathematics
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 and understanding of Mendelian genetics, population genetics, quantitative genetics, breeding methods and genetic improvement tools in livestock animals, with particular regards to the improvement of production and quality traits.</p> <p><i>Applying knowledge and understanding</i> Ability to apply knowledge and understanding to sustainable and environmentally friendly animal husbandry, in relation to the features and potential of the territory and to its cultural traditions.</p> <p><i>Making informed judgements and choices</i> The course will enable students to critically evaluate a farm with respect to data related to animal husbandry contexts and to solve livestock management problems.</p> <p><i>Communicating knowledge and understanding</i> Ability to communicate correctly and to interact positively with all the actors of the livestock sector.</p> <p><i>Capacities to continue learning</i> Ability to maintain, develop, deepen and expand the knowledge achieved</p> <p>The results of the expected learning, in term of knowledge and ability, are listed in the Annex A of the Didactic Regulation of the Bachelor Course (expressed by the European descriptors of the study title).</p>
Contents	Animal breeding and productions. Heredity and variability. Mendelian Inheritance. Dominance. Genetic linkage and crossing over. Gene structure and function. Interaction and epistasis phenomena. Sex inheritance. Sex-linked

	inheritance. Pathological inheritance. Lethal, sublethal and sub-vital genes. Genetic variability. Mutations. Quantitative genetics. Animal production genetics (milk, meat, eggs, wool). Species, breeds and subspecific groups. Population genetics. Gene and allele frequencies. Reproduction methods: selection, inbreeding, crossbreeding, Interspecific hybridization.
Course program	
Bibliography	<ul style="list-style-type: none"> • Lesson notes • Pagnacco G. "Genetica applicata alle produzioni animali", CEA, Milano, 2004 • Russel P.J. "Genetica", Edises, 1998 • Bittante G., Andrighetto I., Ramanzin M. "Fondamenti di Zootecnica", Liviana Editrice, 1999
Notes	Power point slides will support student's learning
Teaching methods	For lectures the teacher makes use of bibliographic material and slides that are available to the students
Assessment methods (indicate at least the type written, oral, other)	<p>The final exam consists of an oral exam on the topics included in the programme. The student's knowledge will be evaluated in relation to criteria established.</p> <p>For students whom have passed the middle programme exam, the final evaluation will be calculated as the mean between the scores achieved for middle programme exam and final oral exam.</p>
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.	<ul style="list-style-type: none"> • <i>Knowledge and comprehension ability</i> The student must show the achievement of knowledge and understanding of the topics, also through data processing, planning of experimental schemes and critical interpretation of the novel items acquired. • <i>Knowledge and applied comprehension ability</i> The student must show to be able to apply the skills achieved to specific contexts also by formulating hypothesis and problem solving solutions. • <i>Autonomy of judgement</i> The student must show to be able to take decisions following independent judgments, as the result of being able to apply the knowledge and skills achieved. • <i>Communication skills</i> <i>The student must show knowledge of properly scientific language, by use of sector-specific scientific-technical terminology, along with exposition clarity.</i> • <i>Learning ability</i> The student must show to be able to process the learned concepts by finding problem solving solutions applied to complex theoretical-practical situations.
Further information	<p>Visiting hours</p> <p>Monday and Wednesday 14:30-15:30</p>