

<b>General Information</b>	
Academic subject	General Animal Husbandry
Degree course	Scienze e Tecnologie Agrarie (STA)
Curriculum	PVPC
ECTS credits	6
Compulsory attendance	No
Language	Italian

<b>Subject teacher</b>	Name Surname	Mail address	SSD
	Anna Caputi Jambrenghi	anna.caputijambrenghi@uniba.it	AGR/17

<b>ECTS credits details</b>			
Basic teaching activities	Lecture (5)	Practical (1)	

<b>Class schedule</b>	
Period	I term
Year	II
Type of class	Lecture - practical

<b>Time management</b>	
Hours	150
In-class study hours	54
Out-of-class study hours	96

<b>Academic calendar</b>	
Class begins	2 <sup>nd</sup> october 2017
Class ends	26 <sup>th</sup> january 2018

<b>Syllabus</b>	
Prerequisites/requirements	Basic knowledge of biology, chemistry 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 genetics, reproductive techniques and genetic improvement of animals in zootechnical production, with particular reference to the qualitative improvement of production</p> <p><i>Applying knowledge and understanding</i>  - Ability to apply knowledge and understanding acquired in the framework of sustainable animal husbandry, keeping in mind the vocation of the area and its cultural traditions</p> <p><i>Making informed judgements and choices</i>  - Ability to independently judge data related to animal husbandry  - Ability to represent and solve complex problems related to animal husbandry</p> <p><i>Communicating knowledge and understanding</i>  - Ability to communicate properly and to interact positively with all those who are part of the zootechnical sector</p> <p><i>Capacities to continue learning</i>  - Ability to maintain, develop, deepen and expand acquired knowledge</p> <p>The expected learning outcomes, in terms of knowledge and abilities, are listed in Annex A of the Study Guide Course Guidelines (expressed through the European descriptors of the study title)</p>

Contents	<ul style="list-style-type: none"> <li>• Elements of genetic: Heredity and variability. Phenotype, genotype and environment. Heritage theories. Hereditary phenomena and Mendelism. Cytoplasmic inheritance. Sex determination. Sex-linked inheritance. Pathological inheritance.</li> <li>• Heritage character in the interest of livestock species: Functional traits of equines. Aptitude for milk and meat production in cattle. Colour and production of wool. Functional traits of pigs. Plumage and egg production.</li> <li>• Reproduction and genetic improvement methods: Species, breeds and races-populations. The frequency of genes in populations. Selection. Inbreeding. Breeding. Crossbreeding. Interspecific hybridization. Genetic engineering in livestock farming.</li> </ul>
Course program	
Bibliography	<ul style="list-style-type: none"> <li>• Pagnacco G. "Genetica applicata alle produzioni animali", CEA, Milano, 2004</li> <li>• Russel P.J. "Genetica", Edises, 1998</li> <li>• Bittante G., Andrighetto I., Ramanzin M. "Fondamenti di Zootecnica", Liviana Editrice, 1999</li> <li>• Bourdon R.M. "Understanding Animal Breeding", Prentice Hall - Upper Saddle River, NJ, 1997</li> <li>• Nicholas F.W. "Veterinary genetics", Oxford Science Publishers, Clarendon Press, Oxford, 1987</li> <li>• Bettini T.M. "Elementi di Scienza delle produzioni animali", Edagricole, Bologna, 1987</li> <li>• A.B. Chapman (ed). "General and quantitative genetics", World animal science, Volume A4, Elsevier Science Publishers, Amsterdam, 1985</li> </ul>
Notes	The teaching material distributed throughout the course complement the bibliography.
Teaching methods	The course topics will be handled with PowerPoint presentations in the classroom and with field excursions.
Assessment methods (indicate at least the type written, oral, other)	<p>The exam consists of an oral test on the topics developed during the theoretical and practical lessons in the classroom and in the field as reported in the Didactic Regulations of the Master Degree Course in Agricultural Sciences and Technologies (Article 9) and in the study plan (Annex A).</p> <p>The assessment of the student's preparation takes place on the basis of established criteria, as detailed in Annex A of the Didactic Regulations of the Master Degree Course.</p> <p>For students who have supported the intermediate test, the vote of the profit test is expressed as the average between the vote of the intermediate test and the vote of the profit test.</p> <p>Foreign students' examination can be done in English.</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.	<p><i>Knowledge and understanding</i> The student will have to demonstrate the knowledge and understanding of the content of the teaching, also by data processing, the establishment of theoretical schemes and the critical interpretation of acquired concepts.</p> <p><i>Applying knowledge and understanding</i> The student will have to demonstrate to be able to applying knowledge and understanding in relation to what has been learned, also by analyzing animal husbandry problems and the</p>

	<p>methods and techniques to be used for possible solutions.</p> <p><i>Making informed judgements and choices</i>  The student will have to demonstrate that he/she is able to make his/her own judgments and choices, also by the elaboration and application of the acquired knowledge and skills.</p> <p><i>Communicating knowledge and understanding</i>  The student must possess language skills and exhibit clarity, even in the use of the specific scientific-technical terminology.</p> <p><i>Capacities to continue learning</i>  The student will have to be able to rework the concepts learned, demonstrating the ability to solve new and complex theoretical and practical issues.</p>
Further information	