

Principali informazioni sull'insegnamento	
Titolo insegnamento	Zootecnica generale
Corso di studio	Scienze e Tecnologie Agrarie
Crediti formativi	6 CFU
Denominazione inglese	General Animal Husbandry
Obbligo di frequenza	no
Lingua di erogazione	Italian

Docente responsabile	Nome Cognome	Indirizzo Mail
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Dettaglio crediti formativi	Area	SSD	Crediti
	Attività formative affini e integrative	AGR717	6

Modalità di erogazione	
Periodo di erogazione	I semester
Anno di corso	2019/2020
Modalità di erogazione	Lectures Laboratory training activities

Organizzazione della didattica	
Ore totali	150
Ore di corso	54
Ore di studio individuale	96

Calendario	
Inizio attività didattiche	7/10/2019
Fine attività didattiche	24/01/2020

Syllabus	
Prerequisiti	Basic knowledge of biology, biochemistry and mathematics
Risultati di apprendimento previsti (declinare rispetto ai Descrittori di Dublino)	<ul style="list-style-type: none"> • Knowledge and understanding 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. • Knowledge and achievement of comprehension skills 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. • Independent evaluation 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. • Communication skills

	<p>Ability to communicate correctly and to interact positively with all the actors of the livestock sector.</p> <ul style="list-style-type: none"> • Learning ability <p>Ability to maintain, develop, deepen and expand the knowledge achieved.</p>
Contenuti di insegnamento	<p>Animal breeding and productions. Heredity and variability. Mendelian Inheritance. Dominance. Genetic linkage and crossing over. Gene structure and function. Interaction and epistasis phenomena. Cytoplasmic heredity. 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.</p>

Programma	
Testi di riferimento	<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
Note ai testi di riferimento	Power point slides will support student's learning
Metodi didattici	For lectures the teacher makes use of bibliographic material and slides that are available to the students
Metodi di valutazione (indicare almeno la tipologia scritto, orale, altro)	<p>The final exam consists of a 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>
Criteri di valutazione	<ul style="list-style-type: none"> • Knowledge and understanding 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. • Knowledge and achievement of comprehension skills The student must show to be able to apply the skills achieved to specific contexts also by formulating hypothesis and problem solving solutions.

	<ul style="list-style-type: none"> • Independent evaluation 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. • Communication skills The student must show knowledge of properly scientific language, by use of sector-specific scientific-technical terminology, along with exposition clarity. • Learning ability The student must show to be able to process the learned concepts by finding problem solving solutions applied to complex theoretical-practical situations.
Altro	