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UNIVERSITÀ DEGLI STUDI
DI PERUGIA

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DEPARTMENT
OF AGRICULTURAL, FOOD
AND ENVIRONMENTAL SCIENCES



DEPARTMENT OF
VETERINARY MEDICINE

INTERDEPARTMENTAL MASTER'S DEGREE COURSE IN ANIMAL SCIENCES

Duration
2 years

7

ECTS
120



Course

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Teaching goals

The Interdepartmental Master's Degree Course in **Animal Sciences** trains professionals able to manage the different aspects of livestock production, evaluating the effects on the entire chain. The graduates acquire skills on the quality and safety of food products of animal origin, on the protection of animal welfare, on the environmental impact, on sustainable development, on the profitability of livestock production systems, and on the management of scientific and technological innovations.

Teaching activities and ECTS		Educational objectives
Animal Breeding	9	The course allows to deepen the scientific and professional knowledge acquired with a three-year degree in Class L-38, as the interdepartmental degree in Animal Production of the University of Perugia.
Feed manufacturing technology and physiopathology of animal nutrition	6	The educational offer includes: - acquisition of in-depth knowledge of the animal reared in the livestock system, oriented towards selection and animal breeding, also with the use of the most modern biotechnologies;
Management of extensive farming systems	12	- solid knowledge of the interactions between animal husbandry and the environment through breeding techniques at different technological levels with knowledge of reproductive physiopathology, of farm technopathies, of animal feed techniques, of livestock dietetics, and of nutritional and metabolic pathology;
Physiopathology of animal reproduction and artificial insemination	6	- knowledge of biometrics applied to animal sciences and computer science oriented to biostatistics and modeling in the animal science field;
Aquaculture and mariculture	5	- knowledge of the concept of animal welfare and of the methods for its evaluation, with the related economic, ethical, and legal implications;
Biometrics applied to animal sciences	6	- aspects relating to the procurement, processing and marketing of animal production, as well as their hygienic, nutritional and nutraceutical characteristics, including the regulatory aspects of certification and accreditation of products of animal origin;
Animal welfare	6	- chemical and biochemical processes of livestock waste, their disposal and enhancement through agronomic use or energy production;
Animal production quality	12	- knowledge of economics applied to the management and profitability of agro-livestock companies, their sustainability, from an economic and environmental point of view;
Management of livestock enterprises	6	- knowledge of the theoretical foundations of rural appraisal, oriented to practical application.
Environmental management of livestock systems	12	The degree course includes: frontal teaching activities, seminars, practical in laboratories, in livestock and agro-food companies, in computer rooms, study visits, internships and stages to be carried out at companies and public institutions affiliated with the Department of Agricultural, Food and Environmental Sciences or with the Department of Veterinary Medicine.
Skills and career opportunities		
Rural appraisal	6	The training allows to dynamically understand the effect of livestock production systems on quantitative and qualitative characteristics of production, animal welfare, environmental impact, profitability, valorization through agronomic use or energy production of livestock waste.
Elective	8	
English B2 level	3	The professional opportunities of the graduate in Animal Sciences are foreseen in the context of activities relating to the entire production chain, in the service activities of businesses, in the freelance, in the public administration and in research institutions, with particular reference to aspects of environmental sustainability, animal welfare, and quality of production.
Internship and career orientation	7	
Final exam	16	The professional profile of the graduate falls within that envisaged for the profession of the Agronomist, regulated by the Presidential Decree 328/2001 and subsequent amendments.