



DEPARTMENT OF  
VETERINARY MEDICINE

DEPARTMENT OF AGRICULTURAL, FOOD  
AND ENVIRONMENTAL SCIENCES

## INTERDEPARTMENTAL DEGREE COURSE IN ANIMAL SCIENCES

Duration  
3 years

ECTS  
180



### Course Coordinator

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### Quality Manager

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### Teaching goals

The Interdepartmental Degree Course in **Animal Sciences** trains chain technicians with expertise in the management of livestock systems and related food industries. Particular attention is dedicated to animal welfare and the use of sustainable farming techniques.

The training program provides a gradual approach to the acquisition of scientific, cultural, technical, and methodological knowledge in the field of animal productions and related activities.

Teaching activities and ECTS		Educational objectives
<b>Biology and Genetics</b>	<b>9</b>	<p>Graduates in the Animal Sciences Degree Course must:</p> <ul style="list-style-type: none"> <li>- possess basic knowledge in the fields of biology, chemistry, physics and mathematics, useful and sufficient for specific and permanent professional training;</li> <li>- know elements of anatomy, physiology and general pathology of livestock, the epidemiology of infectious and parasitic diseases, prophylaxis plans, national and community health legislation, animal reproduction, concepts of animal hygiene and health and quality of products of animal origin, the problems of environmental impact of livestock and processing industry;</li> <li>- be able to work professionally on all aspects of the livestock systems, such as the technical, hygienic and economic management of livestock, agro-livestock, wildlife-hunting and aquaculture companies, as well as providing technical means and services to the companies that operate in the transformation and marketing of animal productions and in the breeding of pets and in the management of wild populations;</li> <li>- know the principles and areas of professional activity and related legislation and ethics;</li> <li>- know how to effectively use, in written and oral form, at least one European language, usually English, in addition to Italian, in the specific area of competence and for the exchange of general information;</li> <li>- possess adequate skills and tools for communication and information management;</li> <li>- be able to work in a team, to work with defined degrees of autonomy and responsibility, and to integrate promptly into work.</li> </ul> <p><b>Skills and career opportunities</b></p> <p>The acquired training allows to:</p> <ul style="list-style-type: none"> <li>- have the skills to provide consultancy for agro-livestock and agro-food companies;</li> <li>- have skills regarding the technologies for the production and transformation of products of animal origin and their marketing;</li> <li>- have skills relating to feed production;</li> <li>- have skills to carry out professional activities in the context of animal genetic selection and breeding;</li> <li>- to participate in the design and construction phases of livestock facilities, wastewater disposal and support systems for livestock.</li> </ul> <p>As an Animal Sciences graduate, it is possible to operate, as a consultant or staff, in the context of:</p> <ul style="list-style-type: none"> <li>- bodies that deal with land management, technical assistance and keeping of herd books, such as national, regional and provincial associations of breeders, ministries and regional development agencies, mountain communities, park authorities;</li> <li>- cooperative structures and product consortia and processing industries; management and control of food processing processes of animal origin; surveillance, assistance and verification of food safety; qualitative and quantitative improvement of livestock production as well as assistance and verification, in the laboratory, of the quality of products of animal origin and those deriving from processing;</li> <li>- professional organizations;</li> <li>- professional firms.</li> </ul> <p><b>USEFUL CONTACTS:</b></p> <p><b>Orientation and Tutoring</b> Dott. Gabriele ACUTI Tel.: +39 075-585 7691 e-mail: gabriele.acuti@unipg.it</p> <p><b>Erasmus+</b> Prof.ssa Francesca MERCATI Tel.: +39 075-585 7636 e-mail: francesca.mercati@unipg.it</p> <p><b>Didactic Secretariat</b> Sig.ra Claudia CRISPIGNI Tel.: +39 075-585 7760 e-mail: segr-didattica.veterinaria@unipg.it</p> <p><b>Student Affairs Office</b> Dott.ssa Renata PIOPI Tel.: +39 075-585 6297 e-mail: segr-studenti.veterinaria@unipg.it</p>
<b>Chemistry and Biochemistry</b>	<b>12</b>	
<b>English language, B1 level</b>	<b>3</b>	
<b>Mathematics and Physics</b>	<b>10</b>	
<b>Orientation, Green Week, Safety at work</b>	<b>2</b>	
<b>Anatomy of livestock animals</b>	<b>8</b>	
<b>Elements of Biometrics applied to animal sciences and Genetic Improvement</b>	<b>6</b>	
<b>Livestock Morphology, Population Structure and Ethnology</b>	<b>6</b>	
<b>General Agronomy and Forage Systems</b>	<b>12</b>	
<b>Agricultural Economics and Policy</b>	<b>9</b>	
<b>Physiology of Livestock animals</b>	<b>8</b>	
<b>General and Applied Microbiology</b>	<b>6</b>	
<b>Industries and technology of food of animal origin</b>	<b>9</b>	
<b>Livestock Feeding and Nutrition</b>	<b>9</b>	
<b>Elements of General Veterinary Pathology</b>	<b>6</b>	
<b>Hygiene and Health prophylaxis in Farms</b>	<b>11</b>	
<b>Farming techniques of monogastric</b>	<b>12</b>	
<b>Ruminant production systems</b>	<b>6</b>	
<b>Safety of Food of Animal Origin</b>	<b>6</b>	
<b>Elective</b>	<b>18</b>	
<b>Practical Traineeship</b>	<b>6</b>	
<b>Final Exam</b>	<b>6</b>	