

<b>General Information</b>	
Academic subject	Zoology
Degree course	Conservation and Management of Agro-Forestry Landscape
Curriculum	
ECTS credits	3
Compulsory attendance	No
Language	Italian

<b>Subject teacher</b>	Name Surname	Mail address	SSD
	Eustachio Tarasco	eustachio.tarasco@uniba.it	AGR/I I

<b>ECTS credits details</b>			
Basic teaching activities			

<b>Class schedule</b>	
Period	2° semester
Year	2°
Type of class	Lecture- workshops

<b>Time management</b>	
Hours	75
In-class study hours	30
Out-of-class study hours	45

<b>Academic calendar</b>	
Class begins	5th March, 2018
Class ends	22nd June, 2018

<b>Syllabus</b>	
Prerequisites/requirements	Know the main aspects of Zoology, inherent the structure, biology and ecology of the animals
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 of the basic elements of Zoology  Knowledge of animal interaction with the environment and forestry</p> <p><i>Applying knowledge and understanding</i>  Ability to assess faunistic biodiversity in agroforestry ecosystems  Ability to analyze the relationships between wildlife and territory</p> <p><i>Making informed judgements and choices</i>  Ability to analyze faunal and environmental contexts in the light of the reports between human activities and the natural environment.  Ability to evaluate the most suitable solution to eco-friendly management and sustainable use of wildlife resources</p> <p><i>Communicating knowledge and understanding</i>  Ability to present the results of projects and develop jobs by themselves or in group activities, through the preparation of technical reports and oral exposure, using an appropriate technical language</p>

	<p><i>Capacities to continue learning</i></p> <p>Ability to ensure the continuous updating of knowledge in the specific field, even with tools that make use of new communications technologies and information technology</p> <p>Ability to deal with the typical problems of agro-forestry land wildlife resources, including through innovative technical solutions</p>
Contents	
Course program	<p>Introduction to Zoology – history, applied zoology. Levels of organization of the animals – Organization of living matter. Prokaryotic and eukaryotic cells. Structure and functions of the animal cell. Types of tissues and functional organization of the animal body. Respiratory, digestive, excretory, support functions, endocrine, nervous and sensory; movement and animal body architecture. Reproduction-Asexual and sexual in Protozoa and Metazoa. Mitosis and meiosis, gametogenesis, gamete morphology; amphigony and parthenogenesis. Reproductive strategies. Oviparous, ovoviviparous and viviparous. Embryonic development and post-types of eggs. Fertilization. Metamorphosis and growth. Sex determination. Phylogeny and classification-Ethology-behavior. Society, mutualism, symbiosis, commensalism, and parasitism. Migrations. Communication systems. Ecology-individuals, populations, communities and ecosystems. Food webs. Population dynamics. Zoogeographic regions. Ethics and animal world – the animals of the forest ecosystem-type animals</p> <p>Features: protozoa, Porifera, Cnidaria, Platyhelminthes, rotifers, nematodes, Flatworms, molluscs, annelids, Arthropods, bryozoans, Echinoderms, fishes, amphibians, reptiles, birds and mammals . General information on agroforestry species of particular interest</p>
Bibliography	<ul style="list-style-type: none"> <li>• Lineamenti di Zoologia Forestale (Battisti et al., Padova University Press).</li> <li>• Zoologia (Mitchell et al., Zanichelli Ed.).</li> <li>• Manuale di Zoologia Agraria (Autori vari; Antonio Dalfino Ed.).</li> <li>• Istituzioni di Zoologia (Ranzi et al.; Ambrosiana Ed.).</li> </ul> <p><i>For Foreigner students (LLP-Erasmus, Tempus, ecc.) the text book is: Integrated Principles of Zoology (Cleveland et al., 2005, McGraw-Hill).</i></p>
Notes	
Teaching methods	<p>Topics will be treated with the help of Power Point presentations, classroom exercises relating to case studies, analysis of scientific publications. All material will be shared through the electronic platform.</p>
Assessment methods (indicate at least the type written, oral, other)	<p>The exam consists of an oral or written test with questions related to the programme. The professor might assign also an ongoing test i.e. a practical exercise (project, research theme, review, etc.). The exam of foreign students can be done in English according to the procedures described above the exam consists in an oral examination about the arguments developed during school hours theoretical and theoretical and practical classroom and laboratory The evaluation of the student's preparation is based on established criteria, as detailed in</p>

	Annex A of the study regulations of the graduate program
<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>	<p>Correctly describe faunal relationships with the environment and possess sufficient knowledge about basic elements of applied zoology</p> <p>Ability to identify tools of governance of zoological resources in agroforestry land. Ability to critically describe the relationships that different animal groups have with the various components of agroforestry ecosystems</p> <p>Ability to describe wildlife and environmental contexts in the light of the reports between human activities and the natural environment. Ability to identify the policy instruments best suited to eco-friendly management and sustainable use of wildlife resources</p> <p>Knowing how to present clearly and exhaustively the results of projects and jobs developed themselves or in group activities, through the preparation of technical reports, presentations, oral exposure, using an appropriate technical language</p> <p>Be able to retrieve bibliographic and statistical sources themselves to continuously update their skills.</p>
Further information	<p><b>Visiting hours.</b> Wednesday, Thursday and Friday (10:00-12:00). All afternoons by previous agreement.</p>