

General Information	
Academic subject	Vertebrate Zoology
Degree course	Science of Nature II Level
Curriculum	LM-60 - LM75
ECTS credits	4
Compulsory attendance	Yes
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	GIOVANNI SCILLITANI	giovanni.scillitani@uniba.it	BIO/06

ECTS credits details	Area	SSD	CFU/ETCS
Basic teaching activities	05	BIO/05	4

Class schedule	
Period	I semester
Year	II
Type of class	Lectures

Time management	
Hours	120
In-class study hours	32
Out-of-class study hours	88

Academic calendar	
Class begins	15/10/2020
Class ends	29/01/2021

Syllabus	
Prerequisites/requirements	Basic knowledge of Zoology and Vertebrate Biology
Expected learning outcomes	<p><i>Knowledge and understanding on:</i></p> <ul style="list-style-type: none"> o biology and adaptation of vertebrates, with reference to those included in the fauna of Italy and those traits with major relations to conservation. Acquisition of theoretical and operational skills will be acquired thanks to the attendance of theoretical lessons and individual study. Field activities will be planned together with other courses <p><i>Applying knowledge and understanding on:</i></p> <ul style="list-style-type: none"> o data collecting and planning of research and projects in the field of animal conservation <p><i>Making informed judgments and choices:</i></p> <ul style="list-style-type: none"> o evaluation and planning of actions for conservation including impact on aspects of the socio-economic system <p><i>Communicating knowledge and understanding</i></p> <ul style="list-style-type: none"> o to collect further information from specific bibliography and prepare a relation or speech in a conservation context using an appropriate vocabulary and terminology <p><i>Capacities to continue learning</i></p> <ul style="list-style-type: none"> o Ability to investigate and read further information about the discipline with a critical spirit, through the consultation of texts and databases. o - Ability to relate knowledge to various contexts in the field of natural history and conservation sciences.
Contents	Vertebrates: systematic and ecological aspects. Primarily aquatic vertebrates: jawless, cartilaginous and bony fishes. Adaptation to aquatic life. Feeding strategies and defense. Reproductive strategies and life cycles. Territorial, social and migratory behaviors. The ichthyofauna of Italy: study and conservation methods. Terrestrial ectotherms: amphibians and reptiles. Adaptation to terrestrial life. Secondary adaptation to aquatic life. Feeding strategies and defense. Reproductive strategies and life

	<p>cycles. Territorial, social and migratory behaviors. The herpetofauna of Italy: study and conservation methods. Terrestrial endotherms: birds and mammals. Bird flight mechanics. Bird behavior: territoriality, sociality, migrations. Bird reproduction: courtship, vocalizations, mating, nesting, parental care. The ornithofauna of Italy: study and conservation methods. Mammal locomotion: terrestrial, flight, swimming. Feeding strategies. Territorial, social and migratory behaviors. Reproductive strategies: courtship, viviparity, lactation, parental care. The theriofauna of Italy: study and conservation methods.</p>
Course program	
Bibliography	- Pough F.H. Janis C.M., Heiser J.B. Zoologia dei vertebrati. Pearson, Milan
Notes	None
Teaching methods	Lectures with the use of PowerPoint
Assessment methods	Oral exam.
Evaluation criteria	<ul style="list-style-type: none"> ● <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ students should demonstrate good knowledge about each topic and the ability of interrelating them. Memorizing without understanding is meaningless. ● <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ students should focus about biological aspects in relation to conservation aspects. Besides, they should be able to plan a study on a given faunal assemblage for conservation purposes. ● <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ students should critically select those biological traits on which focus conservation and management activities and find the current documents for an appropriate planning ● <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ students should use correct technical terms in describing structures and processes and explain them when required. Simple examples of conservation planning will be required. ● <i>Communication skills</i> <ul style="list-style-type: none"> ○ students should use a correct technical language to describe structures and processes and explain them when required. Simple examples of conservation planning should be illustrated. ● <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ although the suggested textbooks cover the topics as much as possible, research and environmental legislation is always in progress so some updates will be given during the lessons. The ability of students to integrate these contents with those from the textbooks will be evaluated.
Further information	

