General Information	
Academic subject	General and Systematic Zoology
Degree course	Natural Science
Curriculum	L-32
ECTS credits	9 (frontal lessons) and 2 (practical exercises)
Compulsory attendance	Recommended
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Francesco Mastrototaro	Francesco.mastrototaroniba.it	BIO/05

ECTS credits details			
Basic teaching activities	11 ECTS	9 (frontal lessons)	2 (practical)

Class schedule	
Period	Second half
Year	2019-2020
Type of class	Lecture- workshops Lectures

Time management	
Hours	255
In-class study hours	102
Out-of-class study hours	180

Academic calendar	
Class begins	04 March 2020
Class ends	07 June 2020

Syllabus	
Prerequisites/requirements	
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)	*Knowledge and understanding* *Knowledge of the of general zoology principles with particular regard to the history of life and its evolution in the animal kingdom. Knowledge of the body plans (bauplan) of the main animal taxa as well as the main hypotheses regarding the evolution of the animal taxa.* *Such knowledge will be acquired through theoretical lessons* *Applying knowledge and understanding* *Ability to recognize the main animal taxa both at the phylum level and at the level of minor taxon such as orders and families. Evaluation of animal biodiversity. The student will be invited to compare the different interpretative or summary proposals related to specific topics developed during the lessons.* *Making informed judgements and choices* *Autonomy in animal taxa identification. Study and understanding of specific scientific papers. The students will be invited first individually and then collegially to discuss the case studies proposed during the lessons.* *Communicating knowledge and understanding*

	Acquiring specific zoological terminology able to allow a personal studies. The students will be invited to express themselves the concepts and the items learned during the lessons. *Capacities to continue learning* Acquiring of critical ability in understanding the evolution of the zoology, through the consultation of scientific papers and /or specific texts
Contents	•
Course program	Frontal lessons Animal Bauplan, Reproductive modalities, Evolutionary process, Protozoa, Porifera, Cnidarians, Ctenophores, Platyzoa, Rotifers, Lofophorates, Molluscs, Annelids, Nematodes / Nematomorphs, Onychophores, Tardigrades, general characters of Arthropoda, Chelicerates, Myriapoda, Crustaceans, Insects, Echinoderms, Chaetognatha, Hemichordata, general characters of Chordata, Fish, Amphibians, Reptiles, Birds, Mammals Laboratory Protozoa, Porifera, Cnidaria, Ctenophores, Platyzoa, Rotifera, Lofoforati, Molluscs, Annelids, Nematodes / Nematomorphs, Chelicerates, Myriapoda, Crustaceans, Insects, Echinoderms, Hemicordata, Chordata
Bibliography	Hickman - Roberts - Keen - Eisenhour - Larson - L' Anson: **Zoologia**. Eds: McGraw-Hill De Bernardi, Balsamo…….Vinciguerra: **Zoologia**. Parte generale. Eds: Idelson Gnocchi Candia, De Bernardi……...Vinciguerra: **Zoologia** – Parte Sistematica Eds: Idelson Gnocchi These texts can also be consulted at university libraries
Notes	Pdf file of the lessons will be provided
Teaching methods	Frontal lessons with PowerPoint supports, plastic zoological models and zoological museum samples
Assessment methods (indicate at least the type written, oral, other)	Oral test
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.	*Knowledge and understanding* Will be evaluated: The take-over of the concepts and theories explained at lessons. The ability to make connections among the evolutionary modalities of the animal taxa as well as on the main evolutionary pathways in the animal kingdom.

	The morphological and functional knowledge of the various taxa will be evaluated in an evaluation range between 25 - 27/30; The ability to range among the animal models and their evolution from 27 to 30/30. Exam cum laude for excellent knowledge but also for personal follow-up *Applying knowledge and understanding* The student must be able to describe, with appropriate language, the zoological topics addressed in the exam and to demonstrate the ability to apply the acquired knowledge in real contexts. *Making informed judgements and choices* The student should be able to do links with other matters of the course of study. This ability will be well consider in the exam evaluation. *Communicating knowledge and understanding* The ability to express concepts with proper language and clarity will be well assessed. He should also demonstrate the ability to apply the acquired knowledge in informative or educational contexts. These abilities together with a good scientific language will be reflected in an increase in the final assessment, with the possibility to take the highest score. *Capacities to continue learning* The student will have to demonstrate that he is able to acquire further knowledges in region of his interdisciplinary preparation. This ability will be well consider to take the highest score
Further information	