



# UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

## ZOOLOGY (SURNAMES L-Z)

<b>Enrollment year</b>	2021/2022
<b>Academic year</b>	2021/2022
<b>Regulations</b>	DM270
<b>Academic discipline</b>	BIO/05 (ZOOLOGY)
<b>Department</b>	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
<b>Course</b>	BIOLOGICAL SCIENCES
<b>Curriculum</b>	PERCORSO COMUNE
<b>Year of study</b>	1°
<b>Period</b>	(01/03/2022 - 14/06/2022)
<b>ECTS</b>	9
<b>Lesson hours</b>	72 lesson hours
<b>Language</b>	Italian
<b>Activity type</b>	WRITTEN AND ORAL TEST
<b>Teacher</b>	OMETTO LINO - 9 ECTS
<b>Prerequisites</b>	Basic knowledge of biology (cytology, physiology, genetics, etc.).
<b>Learning outcomes</b>	Learn the characteristics of animal organisms, in particular invertebrates. Understand the origin of the diversity of organisms and be able to recognize the processes that have shaped their evolutionary history.
<b>Course contents</b>	Conceptual bases, methods and fields of study of Zoology. Concepts of phylogeny-ontogeny, homology, apomorphy, plesiomorphy, convergence, parallelism, adaptations; relationship between form and function; short history of the theory of evolution; evolutionary processes and mechanisms; bases of phylogenetics; biogeography. Functions: protection, support and movement; nutrition; circulation and respiration; excretion and osmoregulation; immunity; nervous system; reproduction. Structural plan (Bauplan) of the main phyla of Protozoans and

	Metazoans (including Porifers, Cnidarians, Platelminths, Molluscs, Anellids, Arthropods, Echinoderms), focusing on their evolutionary and phylogenetic relationships.
<b>Teaching methods</b>	Lectures and seminars.
<b>Reccomended or required readings</b>	<p>Any zoological textbook is fine. Suggested book:</p> <ul style="list-style-type: none"> <li>- Zoologia (di Casiraghi, De Eguilor, Cerrano), UTET Università (in Italian)</li> </ul> <p>Additional textbook to go deeper into the subject:</p> <ul style="list-style-type: none"> <li>- Invertebrates (di Brusca, Moore, Shuster), OUP USA (3rd edition, in English)</li> </ul>
<b>Assessment methods</b>	Oral exam.
<b>Further information</b>	Oral exam.
<b>Sustainable development goals - Agenda 2030</b>	<p>This course provides knowledge consistent with Goal 14: "Life below Water: Conservation and sustainable use of the oceans, seas and marine resources for sustainable development" and Goal 15 of the 2030 Agenda: "Life on Land: Protect, restore and promote sustainable use of the Earth's ecosystem".</p> <p><a href="#">The goals</a></p>