ACADEMIC YEAR 2025/2026

General information	
Name of the integrated course	**PROPHYLAXIS OF INFECTIOUS AND PARASITIC DISEASES OF LIVESTOCK ANIMALS**
Integrated teaching modules	**Prophylaxis of infectious diseases of livestock animals** **Prophylaxis of parasitic diseases of livestock animals**
Degree course	Animal Sciences (L38)
Academic Year	III
European Credit Transfer and Accumulation System (ECTS)	5 (3 ECTS: lessons; 2 ECTS: exe/lab/tutor)
Language	Italian
Period of teaching	II semester (02/03/2026 – 19/06/2026)
Attendance	Mandatory

Teacher	**e-mail address**	**phone**
Annamaria Pratelli	annamaria.pratelli@uniba.it	+39 0805713835
Paolo Capozza	paolo.capozza@uniba.it	+39 080 5713537
Riccardo Paolo Lia	riccardopaolo.lia@uniba.it	+39 080 5713802

Headquarters	Campus of Veterinary Medicine, S.P. per Casamassima km 3, 70010 Valenzano (Ba)
Virtual rooms	Microsoft Teams “Prophylaxis of infectious and parasitic diseases of livestock animals” (access code: fvijea2)
Tutoring (time and day)	Prof Annamaria Pratelli: Friday 11.30am–1.30pm; Wednesday 3.00pm–5.00pm Prof Paolo Capozza: Monday 11.00am–1.00pm; Monday 3.00pm–5.00pm Prof Riccardo Paolo Lia: Monday, Wednesday, and Friday, 11.00am–12.00am; Tuesday and Thursday, 15.00am–16.00am Microsoft Teams "Attività tutoria" (access code: r2zr5zh) By appointment via email

Syllabus	
Learning Objectives	The course provides basic and fundamental knowledge of direct and indirect prophylaxis of infectious and parasitic diseases of livestock, and of zoonoses.
Course prerequisites	Students must have acquired knowledge and skills related to the morphological, biological, and pathogenetic characteristics of pathogens, microorganism-host relationships, immune responses, and vaccine types, as well as basic knowledge of hygiene, biosafety, and epidemiology. To take the final exam, students must have passed the exams in "Microbiology and Applied Immunology" (Code 064024) and "Biosafety and Health Management" (Code 064033).

Contents of the teaching module: Prophylaxis of infectious diseases of livestock animals **Teachers:** **Annamaria Pratelli** **Paolo Capozza** **Lectures** ECTS: 2 **Hours:** 16	Direct and indirect prophylaxis measures in veterinary medicine. Aetiology and biology of the main infectious diseases of livestock. Prophylaxis for the eradication and control of infectious diseases of livestock. Vaccinations.
Contents of the teaching module: Prophylaxis of parasitic diseases of livestock animals **Teacher**: **Riccardo Paolo Lia** **Lectures** ECTS: 1 **Hours:** 8	Damage caused by parasites to livestock assets. Influence of parasitic populations on animal welfare and quantitative-qualitative food production. Prophylaxis of tick-borne diseases (TBDs). Causes of abortion in dairy cows: prophylaxis of bovine neosporosis. Prophylaxis of abomasal and intestinal trichostrongylosis; Influence of gastrointestinal strongylid infestations on the qualitative-quantitative milk production in sheep farms. Epidemiological control and surveillance plans for ovine hydatidosis. Importance of lapping and biting flies in livestock farming. Myiasis in the Mediterranean basin.
Practical activities for the integrated course **ECTS:** 2 (1 ECTS of the teaching module "Prophylaxis of infectious diseases of livestock animals" + 1 ECTS of the teaching module "Prophylaxis of parasitic diseases of livestock animals") **Hours:** 20	Laboratory diagnosis of infectious and parasitic diseases in livestock and interpretation of diagnostic tests. Field work on livestock farms to evaluate and implement biosecurity measures and manage infectious and parasitic disease control. Students will be divided into groups of up to 8-10 people each. They will be followed by the teacher in charge assisted by the researchers and the technicians of the section. Each student will individually carry out the practical part aimed in the identification of parasitic organisms available from the parasitology collection of the Parasitology section by the macro- and microscopic examinations and and in the microscopy room (classroom no. 6) of the Normal Anatomy Section at Lot 2.
Biosafety rules for the attendance of practical activities.	Access to the laboratories of the Infectious Diseases section of the DiMeV is permitted only if equipped with protective clothing (disposable latex gowns and gloves), and after having read the biosafety manual.

Material for the personal study	
Books and bibliography	- Manlio Fadda, Vincenzo Cuteri, Paola Dall'Ara, G– Malattie infettive degli animali, Point Vètèrinaire Italie, 2023, ISBN 9788899211844UTET. Leggi nazionali e comunitarie da GG.UU nazionali ed europee. - Parassitologia zootecnica", Edagricole, Bologna. - AA.VV. "Parassitologia dei ruminanti". Summa. Anno XV, n° 9 (1998)

	- -Otranto D. Parassitologia e malattie parassitarie degli animali (Ed. italiana Veterinary Parasitology; MA Taylor, R Coop, R. Wall), Roma, Edra Editore. 1048 p. 2022. - Lecture notes.
Additional materials	

Work schedule			
Hours			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Individual study
125	24	20	81
ECTS			
5	3	2	/

Teaching strategy	Teaching is based on theoretical lessons for the acquisition of knowledge, and practical lessons for the application of that knowledge. Theoretical lessons are held in classrooms equipped with multimedia tools, using PowerPoint presentations and videos where appropriate. Self-learning activities may be included, using audiovisual materials and films, and self-assessment tests provided by instructors. Theoretical lessons are complemented by active learning methods, such as role-playing and group quizzes (Kahoot, Mentimeter, WooClap) to develop the student cohort's critical thinking and deductive reasoning, as well as specific and transversal skills. Practical lessons are held in specially equipped laboratories in the Infectious Diseases and Parasitic Diseases Section of the Department of Veterinary Medicine and on livestock farms where specific activities for the control and prevention of infectious and parasitic diseases are carried out. Biological samples can also be collected in the company to be processed in the laboratories.

Expected learning outcomes	
Knowledge and understanding ability	Upon completion of the course, students should be familiar with: • the cycles, etiology, and biology of the main infectious diseases of livestock; • the biological cycles of the main parasites that infest livestock; • the main infectious and parasitic diseases in public health; • the basic principles of prevention systems and direct and indirect prophylaxis protocols for the management of the main infectious and parasitic diseases of livestock; • basic concepts of health education.
Applied knowledge and understanding ability	Upon completion of the course, students should have acquired the following skills: • provide advice for implementing prevention and eradication programs for the main infectious and parasitic diseases of livestock; • communicate clearly and collaborate with referral and diagnostic services.
Soft skills	**Autonomy of judgment** Upon completion of the course, students should be able to: • knowledge of the main infectious and parasitic diseases of livestock, with the ability to make a diagnosis; • knowledge of how to implement measures to prevent infectious and parasitic diseases of livestock. **Communication skills** Upon completion of the course, students should be able to: • argue on topics related to infectious and parasitic diseases of livestock;

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	• communicate topics related to infectious and parasitic diseases of livestock using correct terminology and language proficiency; • work in groups, adopting appropriate communication and interaction strategies. **Capacity of self-learning** Upon completion of the course, students should be able to: • independently learn and explore topics related to the prevention of infectious and parasitic diseases in livestock; • learn and apply methodological rigor to approach interventions for the prevention of infectious and parasitic diseases.

Assessment and feedback	
Methods of assessment	The exam of the course allows the acquisition of 5 ECTS of those included in the study plan. The verification of results will be performed: • During the course, by verifying the ability to actively participate in practical activities in the field and in the laboratory • At the end of the course, through an oral exam on the program topics, during which the acquisition of the skills specified in the course objectives is assessed. The exam will be passed after a successful discussion of two topics from the program.

Evaluation criteria	During the evaluation process, the students must demonstrate:
	• *Knowledge and understanding ability*
	  ○ The assessment of knowledge and understanding are based on the assessment of the ability to know the main infectious and parasitic diseases of livestock and the practicable methods for the prevention of infectious and parasitic diseases in livestock.
	• *Applied knowledge and understanding ability:*
	  • The assessment of knowledge and applied understanding are based on the assessment of the ability to apply appropriate methods of prevention of infectious and parasitic diseases in livestock.
	• *Autonomy of judgment*
	  ○ The evaluation of independent judgment is based on the ability to analyse and critically reason on the topics presented.
	• *Communication skills*
	  ○ The evaluation of communication skills is based on the quality, effectiveness and clarity of discussion on topics related to infectious and parasitic diseases of livestock, and methods of prevention of these diseases, also using technical/scientific language.
	• *Capacity to continue learning*
	  ○ The assessment of the ability to learn independently is based on the evaluation of the time spent preparing for the exam and on the ability to consult and analyse scientific and technical documents for professional development.

Criteria for assessment and attribution of the final mark	The results of the exam "Prophylaxis of infectious diseases in livestock" and "Prophylaxis of parasitic diseases in livestock" will contribute to determining the final grade of the integrated exam "Prophylaxis of infectious and parasitic diseases in livestock". The final grade is expressed in thirtieths, and the exam is considered passed when the score is 18/30 or higher. The final grade is the result of a joint evaluation by the commission of the two partial tests, during which students must demonstrate that they have acquired a critical sense of the course topics. To achieve a high grade, students must have developed independent judgment and adequate argumentation and exposition skills. Clarity of presentation, subject knowledge, level of detail, and command of language significantly impact the final

	grade and the exam outcome. Furthermore, the final grade will consider the interest and active participation demonstrated during practical activities in the field and in the laboratory, the communication skills, the clarity of presentation, and the competence achieved. The awarding of honours is contingent upon demonstration of critical reasoning skills on the topics covered and the ability to use appropriate scientific language.
Other comments	To obtain the attendance signature and to be able to access the exam, attendance of 50% of the theoretical lessons and 50% of the practical activities are required.

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