

DIPARTIMENTO DI MEDICINA VETERINARIA



ACADEMIC YEAR 2022/2023

General information				
Name of the integrated course	INFECTIOUS DISEASES 1			
Integrated teaching modules	VIRAL DISEASES and PROPHYLAXIS OF INFECTIOUS DISEASES			
Degree course	Single cycle degree in Veterinary Medicine (LM42)			
Academic Year				
European Credit Transfer and	7 (ECTS lessons: 5; ECTS exe/lab/tutor: 2)			
Accumulation System (ECTS)				
Language	Italian			
Academic calendar	II 7 weeks period			
Attendance	Mandatory			

Professors/ Lecturers	e-mail address	Telephone nr.
Nicola Decaro	nicola.decaro@uniba.it	080-4679832
Canio Buonavoglia	canio.buonavoglia@uniba.it	080.4679841

Headquarters	Campus of Veterinary Medicine, S.P. 62 per Casamassima km 3,		
	70010 Valenzano		
Virtual headquarters	Microsoft Teams		
Tutoring (time and day)	Wednesday, 11.00-13.00; Thursday, 15.00-17.00		

Syllabus	
Learning Objectives	The objective of the teaching course is to transfer the knowledge concerning the etiology, pathogenesis, clinical signs, diagnosis and prophylaxis of the main viral diseases of domestic animals. The student must acquire diagnostic skills, starting from a correct approach the diagnostic procedures up to a rational use of laboratory methods. He/she must also be able to set up adequate control measures against the infectious diseases of animals, also considering the current legislation.
Course prerequisites	Compulsory prerequisite: General pathology. The student must have adequate knowledge and skills concerning the veterinary microbiology and immunology and the pathological changes of cells and tissues.





Contents	of	the	teaching

module:

Viral diseases

Teacher:

Nicola DECARO

Lectures ECTS: 3

Hours: 39

Viral diseases

Clinical sciences of companion animals:

- ➤ Viral diseases of dogs: Canine parvovirus infection; canine minute virus infection; infectious canine hepatitis; infectious canine laryngotracheitis; canine herpesvirus infection; rabies; Aujeszky's disease; canine influenza; canine parainfluenza; canine distemper; canine coronavirus infection.
- Viral diseases of cats: feline panleukopenia; feline viral rhinotracheitis; feline calcivirus infection; feline enteric coronavirus infection/feline infectious peritonitis; feline retroviral infections (feline leukemia, feline immunodeficiency); rabies.
- Viral diseases of equines: equine rhinopneumonitis; West Nile disease; equine viral arteritis; African horse sickness; equine influenza; equine infectious anemia.

Clinical sciences of food-producing animals:

- Viral diseases of cattle: infectious bovine rhinotracheitis/infectious bovine pustular vulvovaginitis; malignant catarrhal fever; lumpy skin disease; foot and mouth disease; bovine viral diarrhoea/mucosal disease; bovine rotavirus infection; bluetongue; bovine coronavirus infection; bovine parainfluenza; bovine respiratory syncytial virus infection; bovine leukosis.
- Viral diseases of sheep and goats: caprine herpesvirus infection; sheeppox, contagious ecthyma; border disease; bluetongue; small ruminant lentivirus infections (Maedi-Visna, caprine arthritis and encephalitis).
- Viral diseases of swine: African swine fever; classical swine fever; Aujeszky's disease; foot and mouth disease; swine rotavirus infection; PRRS; swine influenza; swine coronavirus infections.
- Prion diseases: transmissible spongiform encephalopathies; scrapie; bovine spongiform encephalopathy.

Contents of the teaching module:

Prophylaxis of infectious diseases

Teacher:

Canio BUONAVOGLIA

Lectures ECTS: 2

Hours: 26

Practical activities for the integrated course

ECTS: 2 (1 ECTS of the teaching module "Viral diseases" + 1 ECTS of the teaching module "Prophylaxis of infectious diseases")

This module concerns the clinical sciences of companion and food-producing animals.

Prophylaxis of infectious diseases

➤ Host-pathogen interaction. Infection — clinical disease. Types of viral infections. Protection against infections. Direct and indirect prophylaxis. Characteristics of vaccines against infectious diseases. Vaccination protocols in the different animal species. Evaluation of the post-vaccination immunity. Prophylaxis of rabies and African swine fever. Animal coronaviruses: generality, taxonomy and public health concerns.

Biosafety measures for the control of the biological risks in the isolation unit (Isolation Unit of the Veterinary teaching hospital). Implementation of therapeutical protocols against the most common infectious diseases of dogs and cats (Isolation Unit of the Veterinary teaching hospital). Sampling of companion and food-producing animals for the diagnosis of infectious diseases. Implementation of





Hours: 30 (15 of the teaching module "Viral diseases" + 15 ECTS of the teaching module "Prophylaxis of infectious diseases") hygienic measures and vaccination protocols against infectious diseases in kennels/shelters (MAPIA shelter), stables (horse stables) and farms (cattle farms). Laboratory diagnosis of infectious diseases of companion and food-producing animals. Interpretation of serological assays.

Biosafety	rules	for	the	Access to laboratories, stables and isolation unit of the veterinary teaching hospital
attendance	of	pra	ctical	will be allowed only to students wearing protective clothing (disposable coats and
activities.				gloves and, when required, also footwear) and that have read the biosafety
				manual.

Personal study material	
Books and bibliography	Farina, F. Scatozza, Trattato di malattie infettive degli animali, Torino, UTET, 1998.
	Class notes; PDF presentations available in Google Drive and Microsoft Teams
Additional materials	The additional teaching material will be provided by teachers at the beginning of
	the course and will be available in the Microsoft Teams platform.

Work schedule			
Hours			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Studio individuale
175	65	30	80
ECTS			
7	5	2	/





Expected learning outcomes	
Knowledge and understanding	At the end of the course, the student will have knowledge and understanding
on:	ability related to:
	The aetiology, pathogenesis, clinical signs, diagnosis and treatment of the
	common diseases and disorders that occur in the common animal species (DOC
	2.5)
	• The principles of disease prevention and the promotion of health and welfare.
	(DOC 2.9).
	Veterinary public health issues, e.g. epidemiology, transboundary epizootic
	diseases, zoonotic and food-borne diseases, emerging and re-emerging
	diseases, food hygiene and technology (DOC 2.10)
Applying knowledge and	At the end of the course, the student will be able to:
understanding on:	Apply principles of bio-security correctly (DOC 1.28) Collector approach and the ground an
	Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results (DOC 1.31).
	interpret and understand the limitations of the test results (DOC 1.21)
	 Recognise signs of possible notifiable, reportable and zoonotic diseases as well as abuse and take appropriate action, including notifying the relevant
	authorities (DOC 1.24)
	Advise on, and implement, preventive and eradication programmes
	appropriate to the species and in line with accepted animal health, welfare and
	public health standards (DOC 1.36)
	Communicate clearly and collaborate with referral and diagnostic services,
	including providing an appropriate history (DOC 1.22)
Soft skills	Making informed judgments and choices
	Be able to review and evaluate literature and presentations critically (DOC 1.8).
	Understanding of, and competence in, the logical approaches to both scientific
	and clinical reasoning, the distinction between the two, and the strengths and
	limitations of each (DOC 2.1)
	Be able to analyze with a critical approach the operating procedures of a
	process (diagnostic, preventive, therapeutic, etc.)
	Be able to propose adequate solutions to problematic situations
	Communicating knowledge and understanding
	Work effectively as a member of a multi-disciplinary team in the delivery of corrigon (DOC 1.6.)
	 services (DOC 1.6.) Communicate effectively with clients, the public, professional colleagues and
	responsible authorities, using language appropriate to the audience
	concerned and in full respect of confidentiality and privacy (DOC 1.4)
	Capacities to continue learning
	Demonstrate an ability of lifelong learning and a commitment to learning and
	professional development. This includes recording and reflecting on
	professional experience and taking measures to improve performance and
	competence (DOC 1.13)
Summary of the knowledge	Knowledge:
and competences that the	2.9
integrated course concurs to	2.5
let the students acquire (Day	2.10
One Competences) as	Competences:
scheduled by EAEVE	1.4





1.6
1.8
1.13
1.21 1.22
1.22
1.24
1.28 1.36
1.36

Assessment and feedback			
Methods of assessment	The exam of the integrated course "Infectious diseases 1" allows the acquisition of 7 ECTS of those included in the study plan. The exam consists of partial examinations for the two modules forming the course, i.e., "Viral diseases" and "Prophylaxis of infectious diseases". The ECTS will be obtained after the positive outcome of the two partial examinations and the registration of the final outcome in the ESSE3 platform.		
Evaluation criteria	 • Knowledge and understanding ability: The verification of results will be performed:		
Criteria for assessment and	The outcome of the partial examinations of "Viral Diseases" and "Prophylaxis of		
attribution of the final mark	infectious diseases" will contribute to the determination of the final marks of the teaching module "Infectious Diseases 1 The final mark is the result of a collegial evaluation of the two partial examinations,		





	during which the student must demonstrate to have acquired critical sense with respect to the topics of the course. The final assessment, expressed in thirties, will be passed with marks equal or greater than 18 and will be made on the basis of the correctness of the answer, the communication skills, the clarity of the presentation, the disciplinary competence, and the level of detail.
Additional information	