

211 VETERINARY MEDICINE

Educational and professional program at the second (master's) level

«VETERINARY PHARMACY»



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<https://nuph.edu.ua/osvitni-programi/>

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Field of knowledge	Veterinary medicine
Specialty	211 Veterinary Medicine
Scope of the program	360 ECTS credits
Duration of the program	5 years 10 months
Form of training	daily

Veterinary Pharmacy Educational and Professional Program aimed at training competent veterinary medicine specialists with basic knowledge and practical skills in the diagnosis, treatment and prevention of animal diseases, the organization of management and economics of veterinary affairs, veterinary pharmacy, capable of applying the acquired knowledge in scientific research in the field of veterinary medicine; preparation for implementation of management functions in the field of veterinary medicine. Special education in the field 21 Veterinary medicine under the educational and professional program "Veterinary Pharmacy" provides for the training of a veterinarian with a focus on veterinary pharmacy.

Features of educational and professional program

The program is focused on providing professional competencies in the field of veterinary medicine. High level of professional training is ensured by a strong scientific and academic school and many years of experience, international cooperation in scientific and educational spheres, and the availability of a strong material and technical base. The high level of practical training is ensured by the involvement of leading specialists in the field of veterinary medicine in the educational process. Provides special practice in veterinary pharmaceutical companies and veterinary pharmacies.

Program Components:

N	Name of the course
Required components	
1	Anatomy of domestic animals
2	Entry to the profession
3	Biophysics
4	Ukrainian (professional)
5	English
6	Philosophy
7	History of world and Ukrainian culture
8	Information technology in veterinary medicine
9	Biochemistry of animals
10	Cytology, histology and embryology
11	Bioorganic chemistry
12	Organic chemistry
13	Physiology of animals
14	Occupational health and safety
15	Veterinary radiobiology
16	Veterinary legislation of Ukraine
17	Animal hygiene and veterinary sanitation

18	Veterinary microbiology
19	Veterinary virology
20	Veterinary immunology
21	Pathological physiology of animals
22	Veterinary obstetrics, gynecology and andrology
23	Veterinary and sanitary examination
24	Epizootology and infectious diseases of animals
25	General and special surgery
26	Surgical surgery with topographic anatomy and anesthesiology
27	Parasitology and invasive diseases of animals
28	Pathological anatomy, dissection and forensic veterinary medicine
29	Veterinary pharmacology
30	Veterinary toxicology
31	Veterinary clinical biochemistry
32	Internal animal diseases
33	Clinical diagnosis of animal diseases
34	Organization and economics of veterinary affairs
35	Latin
36	Marketing management in veterinary medicine and pharmacy
Selective components	
37	Medicinal and poisonous plants
38	Veterinary pharmaceutical botany
39	Applied biology with the basics of animal genetics
40	Zoology
41	Nutrition animals
42	Food animals
43	Professional ethics of veterinary medicine doctor
44	Ethics and deontology in veterinary medicine
45	Biotechnology in veterinary medicine

46	Fundamentals of veterinary biotechnology
47	Methodology and organization of scientific research
48	Aspects of scientific professional activity
49	Ecology in veterinary medicine
50	Principles of ecology
51	Production technology of veterinary preparations
52	Veterinary pharmaceutical technology
53	Quality management of veterinary preparations
54	Quality control of veterinary medicines
55	Veterinary pharmacognosy
56	Medicinal plant raw materials in veterinary medicine
57	Marketing research on the veterinary market
58	Marketing tools for the promotion of veterinary drugs
59	Management of services in veterinary medicine
60	Marketing management of veterinary services
61	Veterinary pharmaceuticals
62	Merchandise of veterinary medicines
63	Veterinary immunobiological drugs
64	Vaccines and serums in veterinary medicine
65	Preclinical and clinical studies of veterinary medicinal products
66	Testing of veterinary preparations
67	Biosafety and biosecurity
68	Emergent animals infections
69	Legal regulation in veterinary pharmacy
70	Veterinary pharmaceutical law
Practical training	
71	Internship
72	Pre-diploma practice
Certification of Higher Education Applicants	

73	State qualification exam
74	Preparation and protection of qualification work

Employment and competitive advantages of graduates of the program

Graduates may apply for positions according to the Classifier of Occupations (DK 003: 2010) with the following professional job titles:

doctor of veterinary medicine (2223.2);

junior researcher (Veterinary medicine) (2223.1);

researcher (veterinary medicine) (2223.1);

Research Associate (Veterinary medicine) (2223.1);

assistant (2310.2);

teacher of higher education (2310.2)

or hold the following primary positions:

director of the department (1210.1);

director (chief, other manager) of the enterprise (1210.1).

Competitive advantages of graduates of the program consist of the fact that in addition to the knowledge and skills according to the higher education standard in the specialty "Veterinary Medicine" they gain additional knowledge on the technology of production of veterinary pharmaceuticals, veterinary pharmaceutical law, quality management of veterinary drugs, marketing and management of services in veterinary medicine, veterinary pharmacognosy, veterinary medicine, biosafety, and veterinary drug testing, which makes graduates competitive specialists in both the clinical veterinary medicine and the veterinary pharmaceutical business.

Program learning outcomes

Know and use veterinary terminology correctly; use information from domestic and foreign sources to develop diagnostic, treatment and business strategies; determine the essence of physics-chemical and biological processes that occur in the body of animals in normal and pathological conditions; collect anamnestic data during the registration and examination of animals, decide on the choice of effective methods for the diagnosis, treatment and prevention of animal diseases; to establish a link between

the clinical manifestations of the disease and the results of laboratory tests; to develop quarantine and wellness measures, methods of therapy, prevention, diagnostics and treatment of diseases of different etiology; formulate conclusions on the effectiveness of the selected methods and means of keeping, feeding and treating animals, prevention of infectious and non-communicable diseases, as well as the production and technological processes of the animals for keeping, breeding or operating animals of different classes and species; to monitor the causes of the spread of diseases of different etiology and biological contamination of the environment with livestock wastes, as well as materials and veterinary products; to develop measures aimed at protecting the population from diseases common to animals and humans; to propose and use appropriate innovative methods and approaches for solving problematic situations of professional origin; summarize and analyze information on the effectiveness of veterinary professionals of different subordination; be aware of the rules and regulations regarding the supervision and control of the production, storage, transportation and sale of products of animal and vegetable origin; understand the logical sequence of actions and be able to draw up appropriate documentation during the forensic veterinary examination; to understand the essence of processes of production, storage and processing of biological raw materials; to know the rules of storage of various pharmaceuticals and biologicals, ways of their enteral or parenteral application, to understand the mechanism of their action, interaction and complex action on an animal body; to know the principles and methods of marketing and management of veterinary products and services in veterinary medicine; know the rules and requirements of biosafety, bioethics and animal welfare; to carry out accounting reports during professional activity; to carry out educational activity among workers of branch and the population; to have specialized software for professional tasks.