

General characteristics of the field of study: veterinary medicine
(for the year starting education in the 2018/19 academic year)
effective from the academic year 2022/2023

Field of study	Veterinary medicine
Level of studies	Long-cycle Master's degree
Profile of studies	General academic
Mode of study	Full-time (stationary)/part-time studies (non-stationary) (11 semesters)
Professional title	Veterinary surgeon
Language of instruction	Polish/English
Indication of the academic discipline to which the field of study is assigned, and in the case of assignment to more than one discipline, indication of the leading discipline in which more than half of the learning outcomes will be achieved. It is necessary to provide the percentage of learning outcomes assigned to the indicated disciplines in the total number of learning outcomes.	Leading discipline: veterinary medicine, 100%
The concept of education, including the identification of the relationship with the University's strategy and socio-economic needs.	
<p>The concept of education in the field of <i>veterinary medicine</i> under a general academic profile is in line with the leading discipline of the same name. Graduates obtain the title of veterinary surgeon and are prepared to practice as veterinary practitioners. They are prepared to work in the public and private sectors: in veterinary inspection, animal treatment facilities and veterinary diagnostic laboratories. The mission of the University of Life Sciences in Lublin consists in the implementation of four basic tasks. These are: 1. Ensuring the highest quality of education; 2. Strengthening the academic and research position of the University; 3. Running a university open to collaboration; 4. Running the University as an effectively managed unit of the public finance sector. In the light of these provisions, the mission of the Faculty of Veterinary Medicine of the University of Life Sciences in Lublin is to educate students in accordance with the requirements of national and European standards, carry out scientific research in accordance with the needs of the economy and conduct comprehensive activities to develop highly qualified scientific and professional staff. In view of the above, the education of students in the field of veterinary medicine is fully in line with the strategy of both the Faculty and the entire University of Life Sciences in Lublin.</p>	
The rationale for the creation of the field of study and differences with regard to other curricula	

with similarly defined learning outcomes conducted at the University and assigned to the same discipline:

The University does not offer fields of study with similarly defined learning outcomes assigned to the same discipline. Studies in the field of veterinary medicine are conducted based on the educational standard preparing students to practice the profession of a veterinary surgeon defined by the Regulation of the Minister of Science and Higher Education of 29 September 2011 on education standards for the fields of veterinary and architecture taking into account the Resolution of the Senate of the University of Life Sciences in Lublin No. 13/2019-2020 on guidelines for the preparation and improvement of the curriculum of higher studies at the University of Life Sciences in Lublin and the Resolution of the Senate of the University of Life Sciences in Lublin No. 59/2020-2021.

Description of competencies expected from an applicant for admission for studies:

Candidates holding a certificate of secondary school leaving examination (matura exam) may apply for admission to study veterinary medicine. Qualification proceedings:

- for candidates holding the "new" matura exam, they are based on the results of the written part of the external matura exam. The competition assessment is based on multipliers that relate to the grades obtained for subjects passed in the mature exam at the basic or extended level;
- for candidates holding the "old" matura exam, they are based on a matura exam competition. If a candidate has not passed the matura exam in subjects covered by the competition, the final grades obtained for subjects listed in the secondary school diploma are taken into account;
- for laureates and finalists of contests and competitions: depending on the subject of the contest or competition, preferential rules are taken into account.

Subjects included the matura exam taken into account in recruitment: obligatory biology and chemistry; optional: physics and astronomy or mathematics.

Multipliers used in competition assessment:

Subject	basic level	extended level
Biology	1.0	2.0
Chemistry	1.0	2.0
Physics and astronomy or mathematics	1.0	2.0

Description of a graduate profile including general educational objectives, as well as opportunities for employment and continuation of studies:

General learning outcomes are defined by the Regulation of the Minister of Science and Higher Education the of 29 September 2011 on education standards for the fields of veterinary and architecture.

The main goals of education are:

- 1) gaining the knowledge necessary to practice as a veterinarian regarding:
 - a) the structure and functioning of animal organisms;
 - b) animal husbandry,
 - c) the nature of pathogens and the pathogenesis of disease,
 - d) the effects and principles of medication,

- e) diagnosis and therapy of infectious and non-infectious diseases,
 - f) surgical techniques used,
 - g) veterinary aspects of consumer health protection according to the *from stable to table* principle,
 - h) regulations related to the practice of this profession;
- 2) gaining the ability to practically apply the acquired knowledge,
 - 3) preparing to work independently and as part of a team, communicating with pet owners, forming opinions, and maintaining appropriate records;
 - 4) developing a sense of responsibility for other team members, including subordinates, and patients;
 - 5) acquiring the habit and sense of the need for continuing education and the use of the skills of experienced veterinarians.

General learning outcomes:

The results acquired in the process of learning in the basic classes of physics, chemistry, biology and mathematics applied to the biological sciences provide the graduate with the preparation to use the acquired knowledge in solving problems occurring in the process of further study.

As part of the learning outcomes acquired in the learning process in the scope of activities from the group of directional classes:

- 1) basic sciences: anatomy (including histology and embryology), physiology, biochemistry, genetics, pharmacology, pharmacy, toxicology, pathophysiology, microbiology, immunology, epidemiology, and professional ethics – the graduate describes and interprets the basic principles and mechanisms underlying animal health, disease and therapy, from the cellular level through the organ and from the animal to the entire animal population, and demonstrates knowledge of normal structure and function, mechanisms regulating homeostasis, pathophysiological changes in organs and systems, and biological and pharmacological mechanisms enabling recovery, as well as in the field of the biology of infectious agents causing animal-transmitted diseases and anthrozooses, including disease transmission mechanisms and macro-organism defense mechanisms;
- 2) clinical sciences: obstetrics, pathology (with pathological anatomy), parasitology, general surgery with anesthesiology, clinical classes on internal diseases, infectious diseases, surgery and reproduction of domestic animals, diseases of poultry and other animals, prophylaxis, radiology, reproduction and reproductive disorders, state veterinary service and public health protection, veterinary legislation and forensic medicine, therapeutic management and propedeutics – The graduate demonstrates the knowledge and skills necessary to: perform clinical examination of patients in accordance with the clinical examination plan, thoroughly analyse clinical symptoms and anatomopathological changes, collect, analyse and properly interpret clinical data and the results of laboratory and additional tests, formulate the diagnosis, including differential diagnosis, take therapeutic or prophylactic measures, monitor the health of the herd in large-scale breeding, take appropriate actions in case of a compulsorily notifiable disease;
- 3) animal production: technologies in animal production, animal nutrition, agronomy, agricultural economics, animal breeding, veterinary hygiene, ethology and animal protection –the graduate demonstrates knowledge of animal breeding, including the principles of animal nutrition, animal welfare and the principles of production economics; knows the methods of management and utilisation of the by-products and waste associated with animal production;
- 4) food hygiene: inspection and control of animal feedstuffs and foodstuffs of animal origin, food hygiene and technology, practical training (including slaughterhouses and processing plants for foodstuffs of animal origin) – the graduate: understands the principles of consumer health

protection, has the ability to properly supervise the production of foodstuffs of animal origin, knows the standards, principles and conditions of production technology and maintaining the hygiene of the technological process and is able to interpret legal acts regulating proper veterinary supervision, is able to carry out ante and post-mortem examinations and use control systems in accordance with HACCP procedures (*Hazard Analysis and Critical Control Points System*); these skills require advanced, specialised knowledge of pathology, microbiology, parasitology, pharmacology, toxicology and epidemiology.

As part of the learning outcomes for extra-curricular classes:

- 5) Latin language, modern foreign language and humanities –The graduate is able to use passively and actively Latin medical nomenclature to the extent necessary to understand and describe medical activities, animal health, diseases, pathological conditions and lesions, and has mastered passive and active knowledge of a modern foreign language to the extent necessary to communicate and consult on an advanced level with veterinarians and other specialists in related disciplines, including specialists from abroad;
- 6) basics of computer science – the graduate knows and can use information systems used to manage the clinic, herd and to analyse the epizootic situation;
- 7) physical education - the graduate has the necessary physical fitness to work with some animal species.

The graduate obtains the title of veterinary surgeon and is prepared to practice as a veterinary practitioner. The learning outcomes achieved in the course of study prepare the graduate to:

- conduct clinical examinations of animals,
- diagnose, prevent, control and treat animal diseases,
- examine slaughter animals, meat and other products of animal origin,
- carry out sanitary and veterinary supervision of animal trade and production of comestible products of animal origin, protect public health and the environment,
- conduct examinations and veterinary evaluations of animal nutrition products and their manufacturing conditions,
- perform laboratory tests for diagnostic, preventive, therapeutic, or sanitary/veterinary purposes,
- issue veterinary opinions and certificates,
- disseminate knowledge of veterinary medicine and manage veterinary affairs.

The graduate is prepared to work in the state and private sector: in veterinary inspection, animal treatment facilities, veterinary diagnostic laboratories.

The graduate is oriented towards further development of his/her professional skills and improvement of skills by adapting them to the social and economic realities, as well as prepared to undertake doctoral studies or specialist postgraduate studies.