



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2019/20**  
**SINGLE-CYCLE DEGREE**  
**Veterinary Medicine (Classe LM-42)**  
**enrolled since 2009/10 academic year**

### HEADING

|  |  |
|--|--|
| <b>Degree classification - Denomination and code:</b>          | LM-42 Veterinary medicine                                |
| <b>Degree title:</b>   | Dottore Magistrale                                       |
| <b>Length of course:</b>                                       | 5 years  |
| <b>Total number of credits required to complete programme:</b> | 300  |
| <b>Years of course currently available:</b>                    | 1st , 2nd , 3rd , 4th , 5th                              |
| <b>Access procedures:</b>                                      | Cap on student, student selection based on entrance test |
| <b>Course code:</b>  | H15  |

### PERSONS/ROLES

#### Head of Study Programme

prof. Giuseppe Sironi

#### Tutors - Faculty

prof. Giuseppe Sironi, prof. Stefano Romussi, prof.ssa Paola Brambilla, prof.ssa Paola Scarpa

#### Degree Course website

<https://veterinaria.cdl.unimi.it/it>

Via Dell'Università, 6 - Lodi Phone 02 50314200 La segreteria è aperta al pubblico previo appuntamento tramite il servizio Informastudenti Email: [segreteria.veterinaria@unimi.it](mailto:segreteria.veterinaria@unimi.it)

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Via dell'Università 6, Lodi.

### CHARACTERISTICS OF DEGREE PROGRAMME

#### General and specific learning objectives

This Manifesto deals with the Single-Cycle Degree in Veterinary Medicine of the Università degli Studi di Milano.

In compliance with art. 11, comma 2, Law 19 November 1990, n. 341, with art. 12, M.D. 22 October 2004, n. 270 and the policies in M.D. 26 July 2007, n. 386, and in the respect of teaching freedom as well as of rights and duties of professors and students, this Manifesto specifies the organization concerning the Single-Cycle Degree in Veterinary Medicine, in relation to the connected Teaching Norms, as defined in University Teaching Regulations, according to Degree Class LM 42, as in M.D. 16 March 2007, and according to the rules defined in the General and Didactic Regulations of Veterinary Medicine Degree Course.

#### General and Specific Educational Goals

Pursuant to the provisions of M.D. 270 dated 22 October 2004 (Changes of Regulations as to University Teaching Autonomy approved by M.D. 3 November 1999, n.509 issued by the University, Scientific and Technological Research Ministry), and of M.D. 386 dated 26 July 2007 (Applied Policies), following the qualifying instructional aims given in a Class, the five-year curriculum of the Single-Cycle Degree Course in Veterinary Medicine focuses on the fundamental education and expertise necessary to graduates for their veterinary profession; thus, theoretical knowledge and skills indispensable to their professional practice will be acquired gradually through the culture-related and professional disciplines identified below and within a clear, qualifying training design.

#### Expected learning outcomes

Basic Subjects: Preliminary knowledge deriving from fundamentals helps with understanding the cultural meaning underlying veterinary medicine. This is the aim of the Physics, Chemistry and Biology (animal and plant) Training Discipline set. Biochemistry, Anatomy and Physiology of domestic animals are also within the teaching programme objectives, as well as basics of Genetics, Animal Improvement, Microbiology and Immunology, the latter to be considered prerequisites to animal health. Basic knowledge of Mathematics and Computer Science is necessary to Biostatistics. Lectures, exercises and assessment of individual learning represent the teaching format. Animal Production: Animal breeding systems, animal nutrition and feed are taught considering structural, technological and managerial aspects and including genetic improvement, applied ethology and animal welfare. Education here is mainly applicative and focuses on

both pets and livestock. The students' practical skills and problem solving ability determine their learning evaluation. Clinical area: knowledge of Anatomy and Physiology together with General Pathology and Veterinary Anatomic Pathology are fundamental to the study and to the medical, surgical and obstetrical expertise on diseases involving organs and systems; indications related to sector pathologies are preliminary to clinical, radiological and laboratory diagnostics as well as to medical and surgical clinical indications which can cure animal diseases. Applicative understanding, analytical capacity and independent evaluation are important requirements to professional veterinarians, as well as Forensic and Veterinary Forensic knowledge. Animal Health: infectious and parasitic diseases are an important veterinary issue both when related to a single pet or sports animal and to livestock. Thus, systematically updated skills regarding every species are to be acquired in the field. Carefully monitored learning, even in its practical application, of etiology, epidemiology, diagnosis, control, prophylaxis, and treatment is necessary; as to multi-factorial pathologies, commonly found in intensive farms, what can interact in affecting the welfare of livestock and their receptivity and what can cause anthroponosis are to be considered, even in connection to the regulations of veterinary public health and to environmental impact due to animal farming. Food Inspection: veterinary inspectors are required to have knowledge of animal food production chain and of the hygiene of animal food and derived products; moreover, they are to consider and understand all processing and transformation steps to the final product in their affecting human health. Practical and verifiable expertise should include necessary information about a proper evaluation of food quality in compliance with national and international regulations. Foreign Language: English language is taught and assessed

#### Terminal Learning Objectives

At the end of the Programme, a Single-Cycle Degree in Veterinary Medicine, Class 42 (LM-42, Veterinary Medicine) is achieved; the primary objective of a Veterinary Medicine graduate is to ensure animal health and consequently the health of humans in direct contact with animals or connected to animal food consumption. Control of the quality of animal products and of their health as well as environmental protection are also among the concerns of a Veterinary Medicine graduate.

### Professional profile and employment opportunities

Career opportunities for a DVM refer to university curriculum information and are arranged in ISTAT classes 2.3.1.4.0 (Group and Class: Life Sciences specialists; Category and Profession: veterinaries and assimilated). To practice as a veterinarian, most employments require a State License based on a public examination. Employments can be found firstly within specific areas of the National Health Service (Animal Health, Food, Environment, and Animal Welfare) and, after obtaining required qualifications, both in Local Health Services and in Experimental Zootechnic Institutes. Then, in the zootechnic industry (Animal Feed, Nutritional Supplements, Genetic Selection and Production Development), in the pharmaceutical industry (Consultancy, Technical Support, Research and Development, Regulation and Registration), and in the food industry (Production Hygiene, Processing Technologies and Animal Food Production Management). Last, in the traditional areas of private practice such as surgical and obstetrical-gynaecological Clinics in private surgeries and on-site for pets and livestock, but also in the last field of behavioural sciences. New opportunities are to be found in international and EU organizations fostering cooperation and development.

### Notes

#### Admission Requirements

Law 2.8.1999 n. 264 and in application of Directive 78/1027/CEE. The number of students to accept is proposed by the Teaching Coordination Board each year, approved by the Department Board and Directive Committee and defined with the application of Regulations in art. 3 Law 264; in compliance with art. 4 of the same law, a secondary school leaving certificate is required; admission is eventually defined after general knowledge exams assessing the future student's endowment to the disciplines taught. Students admitted to the Programme must show, according to their knowledge, required skills and commitment to the veterinary job and to the achievement of a Single-Cycle Degree in Veterinary Medicine.

#### Degree Programme Organization

Single-Cycle Degree in Veterinary Medicine is completed in 5 years; its Programme is divided into 10 semesters, for a total of 300 Credits. Students must acquire 72 credits for fundamentals, 171 credits for specific learning activities, 12 credits for parallel or integrative learning activities (inclusive of 3 credits for English as L2), 8 credits for free-choice learning activities, 7 in for learning activities connected to the final exam, and 30 credits for practical training. Teaching/Learning formats include: lectures, individual studying, lab practice (Computer Science, Physics, Chemistry, Diagnostics), outpatient clinics for pets and livestock, training at livestock breeding farms, seminars, conferences and congresses. Official training discipline sets of the Degree Programme are organised as integrated courses including two or more disciplines, or as monographic courses. Apart from technical and specialising information, the main scope of teaching consists in cultural and gradual professional education of the students whose professionalism asks for knowledge awareness and independent assessment. One credit (CR.) equals a 25-hour standard activity set for each student divided into: 8 hours for theory and 17 hours for personal study; 16 hours for exercises or laboratory activities and 9 hours for personal study; 25 hours for practical training or for individual study. Academic achievements are checked, as in the rules laid down in the University Teaching Regulation, by a collegiate inclusive assessment from professors in charge of single disciplines or of a coordinated discipline set. Credits required for each discipline set are obtainable after passing a written and/or oral examination scored over thirty according University and Degree Course rules. Each discipline corresponds to an examination; in case of integrated courses, i.e. courses composed of a set of disciplines taught by different professors, one professor is to be in charge of the coordination of exam arrangements and recording. The assessment of a foreign language competence is proven by an examination of owned or acquired English language skills of each student. As it is a five-year Single-Cycle Degree, more than thirty examinations in total are not allowed. With regard to free-choice learning activities, integrated courses (8 credits each) are available from Year 5. These activities, whose objective is a deep preparation in specific areas of Veterinary Medicine, are divided into sets and are approved by the Teaching Coordination Board of Veterinary Medicine on the

understanding of full free choice of the students. Due credits are acquired by passing examinations scored over thirty. As to practical training and its related 30 credits, the Faculty provides students with training exercises in its facilities (Veterinary Hospital for pets and livestock, surgeries, surgical and anatomical rooms, experimental zootechnic teaching centre, livestock facilities, diagnostic and research laboratories), in affiliated public or private institutions. Training exercises are regulated by rules the Teaching Coordination Board of Veterinary Medicine establishes; the Board also approves educational curricula and student tutors. Nature and extent of participation are agreed between students and professors; tutors certify in writing the performed training to the Teaching School Secretary. Practical training is required for admission to the State Examination.

#### Conscientious objection

Students of the Faculty of Veterinary Medicine of the University of Milan who wish to declare their conscientious objection to animal testing, based on the law of 12 October 1993 n. 413 "Rules on conscientious objection to animal experimentation" can do so at any time during their training. Anyway, the Veterinary Medicine Degree Course of the University of Milan does not use of animal testing as part of the courses of the degree. For this reason, as regards teaching do not occur the conditions for the application of Law no. 413 of 12 October 1993. The case of some specialization schools is different, and moreover of the that could be developed within a research that foresees experimentations with engagement of animals. In this regard it is emphasized that the student always has the possibility of developing a thesis that does not include animal testing activities. We also inform you that most of the thesis topics proposed do not involve acts connected with animal experimentation.

#### Note

To enroll in singular Veterinary Medicine courses, preventive authorization must be requested from the competent bodies by submitting a paper application to the Student Secretariat without making payment. Enrollment is only allowed for courses for which previous passing of other mandatory exams is not a prerequisite. Deadlines for enrollment in single courses are available at the link <http://www.unimi.it/studenti/matricole/77567.htm>

#### Compulsory Attendance of Lessons

Attendance of lessons and practices is mandatory.

## **EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM**

The University of Milan supports the international mobility of its students, offering them the opportunity to spend periods of study and training abroad, a unique opportunity to enrich their curriculum in an international context.

### **Study and internships abroad**

#### Exchange opportunities

The Veterinary Medicine Degree Course offers educational opportunities abroad, within the Erasmus + project, with the possibility of stays of 3 to 9 months and with full recognition of the credits obtained at the host university. The foreign faculties with which bilateral exchange agreements are in place are numerous and located in the Iberian Peninsula (Barcelona, Leon, Santiago de Compostela, Zaragoza, Madrid, Cordoba, Porto and Lisbon), in Austria (Vienna), in Germany (Munich), in Belgium (Ghent), in France (Paris) and in Romania (Cluj Napoca and Timisoara). Students participate in the selections starting from the second year of the course and can follow all the courses of the third, fourth and fifth year abroad and take the relative exams. Furthermore, Erasmus + is a good opportunity to acquire credits associated with practical and professional activities such as internships and those chosen by the student. A few months before departure, students are received by the Degree Course Erasmus tutor to evaluate which courses and practicals to follow abroad and fill in the learning agreement, the study program document that will accompany the student abroad. At return, the career is evaluated, the credits obtained are assessed with the same tutor and recognized by the Interdepartmental Degree Course Committee. The Erasmus + project then, through other types of stays abroad, such as Placements, allows internships even at the end of the course or during the first year after graduation. Placement grants support work placements at research centers or veterinary clinics, able to provide an international approach to the profession and often opening up good job opportunities. The Veterinary Medicine Degree Course participate also to other international programs such as the Erasmus Mundus Sigma Agile hosting students from the Balkans.

### **How to participate in Erasmus mobility programs**

To gain access to mobility programs for study purposes, lasting 3-12 months, the enrolled students of the University of Milan must attend a public selection that starts usually around the month of February each year through the presentation of specific competition announcements, which contain information on available destinations, respective duration of the mobility, requirements and deadlines for submitting the online application.

The selection, aimed at evaluating the proposed study abroad program of the candidate, knowledge of a foreign language, especially when this is a preferential requirement, and the motivations behind the request, is performed by specially constituted commissions.

Each year, before the expiry of the competition announcements, the University organises information sessions for the specific study course or groups of study courses, in order to illustrate to students the opportunities and participation rules.

To finance stays abroad under the Erasmus + program, the European Union assigns to the selected students a scholarship that - while not covering the full cost of living abroad - is a useful contribution for additional costs as travel costs or greater cost of living in the country of destination.

The monthly amount of the communitarian scholarship is established annually at national level; additional contributions may be provided to students with disabilities.

In order to enable students in economic disadvantaged conditions to participate in Erasmus+ program, the University of Milan assigns further additional contributions; amount of this contributions and criteria for assigning them are established from year to year.

The University of Milan promotes the linguistic preparation of students selected for mobility programs, organising every year intensive courses in the following languages: English, French, German and Spanish.

The University in order to facilitate the organisation of the stay abroad and to guide students in choosing their destination offers a specific support service.

More information in Italian are available on [www.unimi.it](http://www.unimi.it) > Studenti > Studiare all'estero > Erasmus+

For assistance please contact:

Ufficio Accordi e relazioni internazionali

via Festa del Perdono 7 (ground floor)

Tel. 02 503 13501-12589-13495-13502

Fax 02 503 13503

E-mail: [mobility.out@unimi.it](mailto:mobility.out@unimi.it)

Desk opening hour: Monday-friday 9 - 12

| <b>1st COURSE YEAR Core/compulsory courses/activities common</b>      |             |   |
|---|-------------|---|
| <b>Learning activity</b>  | <b>Ects</b> | <b>Sector</b>   |
| Agronomy, Crop Science, Rural Buildings and Economics                 | 9           | (3) AGR/10, (3) AGR/02, (3) AGR/01                                |
| Biochemistry and Molecular Biology                                    | 9           | BIO/10  |
| Biology, Histology and Embryology                                     | 10          | (3) BIO/05, (4) VET/01, (3) BIO/01                                |
| General Zootechnics and Genetic Improvement                           | 7           | AGR/17  |
| Physics, Chemistry, Informatics Biostatistics and English             | 14          | (5) SECS-S/02, (3) CHIM/03, (3) FIS/07, (3) L-LIN/12, (3) CHIM/06 |
| Systematic and Comparative Veterinary Anatomy                         | 11          | VET/01  |
| Total compulsory credits  | 60          |   |
| <b>2nd COURSE YEAR Core/compulsory courses/activities common</b>      |             |   |
| <b>Learning activity</b>  | <b>Ects</b> | <b>Sector</b>   |
| Clinical Biochemistry   | 6           | BIO/12  |
| General Veterinary Pathology, Veterinary Microbiology and Immunology  | 14          | (8) VET/03, (6) VET/05  |
| Physiology and Endocrinology of Domestic Animals                      | 9           | VET/02  |
| Physiology and Ethology of Domestic Animals                           | 10          | VET/02  |
| Special Husbandry and Animal Breeding                                 | 9           | (6) AGR/19, (3) AGR/20  |
| Systematic and Topographic Veterinary Anatomy                         | 8           | VET/01  |
| Total compulsory credits  | 56          |   |
| <b>3rd COURSE YEAR Core/compulsory courses/activities common</b>      |             |   |
| <b>Learning activity</b>  | <b>Ects</b> | <b>Sector</b>   |
| Animal Nutrition  | 10          | AGR/18  |
| Infectious Diseases of Domestic Animals 2 and Veterinary Epidemiology | 9           | VET/05  |
| Infectious Diseases of Domestic Animals and Avian Pathology           | 8           | VET/05  |
| Veterinary Anatomic Pathology 1                                       | 5           | VET/03  |
| Veterinary Anatomic Pathology 2                                       | 8           | VET/03  |
| Veterinary parasitology and Parasitic Diseases                        | 9           | VET/06  |
| Veterinary Pharmacology and Toxicology                                | 9           | VET/07  |
| Total compulsory credits  | 58          |   |
| <b>4th COURSE YEAR Core/compulsory courses/activities common</b>      |             |   |
| <b>Learning activity</b>  | <b>Ects</b> | <b>Sector</b>   |
| Inspection of Animal Source Foods 1                                   | 9           | VET/04  |
| Inspection of Animal Source Foods 2                                   | 8           | VET/04  |
| Surgical Pathology, Semeiotics and Veterinary Radiology               | 9           | VET/09  |
| Veterinary Anesthesiology and Surgical Techniques                     | 6           | VET/09  |
| Veterinary Medical Pathology and Clinical Epidemiology                | 6           | VET/08  |
| Veterinary Medical Semiotics and Legal Medicine                       | 9           | VET/08  |

|   |             |  |        |
|---|-------------|--|--------|
| Veterinary Obstetrics, Pathology and Reproductive Technologies  |             | 6  | VET/10 |
| Total compulsory credits  |             | 53   |        |
| <b>5th COURSE YEAR Core/compulsory courses/activities common</b>  |             |  |        |
| <b>Learning activity</b>  | <b>Ects</b> | <b>Sector</b>  |        |
| Andrology and Obstetrical-Gynecological Clinics   | 8           | VET/10   |        |
| Veterinary Internal Medicine and Therapy  | 12          | VET/08   |        |
| Veterinary Surgical   | 8           | VET/09   |        |
| Total compulsory credits  |             | 28   |        |
| <b>Elective courses</b>   |             |  |        |
| Nutrition for prevention and longevity  | 8           | (3) AGR/18, (4) VET/06, (1) AGR/17, (4) VET/09, (4) VET/08, (4) VET/10, (4) VET/03, (4) VET/05                         |        |
| Training course 01: Diagnostic approach to infectious diseases of pets                                  | 8           | (4) VET/06, (4) VET/09, (4) VET/08, (4) VET/10, (4) VET/03, (8) VET/05   |        |
| Training course 02- Prophylactic approach to infectious diseases of pets                                | 8           | (4) VET/06, (4) VET/09, (4) VET/08, (4) VET/10, (4) VET/03, (8) VET/05   |        |
| Training Course 03: Bovine Health Management  | 8           | (1) AGR/18, (5) VET/06, (4) VET/09, (4) VET/08, (4) VET/10, (1) VET/02, (4) VET/03, (5) VET/05                         |        |
| Training course 04: Diagnosis and therapy of the soft tissue diseases in dogs and cats                  | 8           | (4) VET/06, (6) VET/09, (4) VET/08, (5) VET/10, (5) VET/03, (4) VET/05   |        |
| Training course 05: Small animal internal and behavioural medicine                                      | 8           | (3) AGR/19, (4) VET/06, (4) VET/09, (4) VET/08, (4) VET/10, (1) VET/02, (4) VET/03, (4) VET/05                         |        |
| Training course 06: Genetics and management of companion animals  | 8           | (1) AGR/19, (4) VET/06, (1) AGR/18, (4) VET/09, (1) AGR/17, (4) VET/08, (4) VET/10, (1) AGR/20, (4) VET/03, (4) VET/05 |        |
| Training course 07: Wildlife management I   | 8           | (5) VET/06, (4) VET/09, (4) VET/08, (4) VET/10, (6) VET/03, (5) VET/05   |        |
| Training course 09: Nutrition, Innovation and Security  | 8           | (4) VET/06, (4) AGR/18, (4) VET/09, (4) VET/08, (4) VET/10, (4) VET/03, (4) VET/05                                     |        |
| Training course 10: Small animal internal and behavioural medicine                                      | 8           | (1) AGR/19, (4) VET/06, (5) VET/09, (5) VET/08, (4) VET/10, (4) VET/03, (5) VET/05                                     |        |
| Training course 12: Veterinary Oncology   | 8           | (4) VET/06, (5) VET/09, (4) VET/08, (4) VET/10, (7) VET/03, (4) VET/05   |        |
| Training course 13: Clinical Pathology  | 8           | (4) VET/06, (4) VET/09, (4) VET/08, (4) VET/10, (8) VET/03, (4) VET/05   |        |
| Training course 14: Small animal reproduction   | 8           | (4) VET/06, (4) VET/09, (4) VET/08, (8) VET/10, (4) VET/03, (4) VET/05   |        |
| Training course 15: Veterinarian's role in evaluating farm animal welfare                               | 8           | (2) AGR/19, (4) VET/06, (4) VET/09, (5) VET/08, (4) VET/10, (5) VET/03, (4) VET/05                                     |        |
| Training course 16: Ultrasonography and endoscopy in companion animals (small animals and sport horses) | 8           | (4) VET/06, (5) VET/09, (7) VET/08, (4) VET/10, (4) VET/03, (4) VET/05   |        |
| Wildlife management II  | 8           | (1) VET/07, (1) AGR/19, (4) VET/06, (4) VET/09, (2) AGR/17, (4) VET/08, (4) VET/10, (4) VET/03, (4) VET/05             |        |

| <b>End of course requirements</b> |                          |    |
|-----------------------------------|--------------------------|----|
| Final examination                 | 7                        | NA |
| Practical training                | 30                       | NA |
|                                   | Total compulsory credits | 37 |

## **COURSE PROGRESSION REQUIREMENTS**

*The course contains the following obligatory or advised prerequisites*

| <b>Learning activity</b>  | <b>Prescribed foundation courses</b>                                  | <b>O/S</b>      |
|---|---|-----------------|
| Veterinary Anatomic Pathology 2                                       | Veterinary Anatomic Pathology 1                                       | Core/compulsory |
|   | General Veterinary Pathology, Veterinary Microbiology and Immunology  | Core/compulsory |
|   | Veterinary parasitology and Parasitic Diseases                        | Core/compulsory |
| Veterinary Anatomic Pathology 1                                       | General Veterinary Pathology, Veterinary Microbiology and Immunology  | Core/compulsory |
| Physiology and Ethology of Domestic Animals                           | Biochemistry and Molecular Biology                                    | Core/compulsory |
|   | Systematic and Topographic Veterinary Anatomy                         | Recommended     |
|   | Systematic and Comparative Veterinary Anatomy                         | Core/compulsory |
| Physiology and Endocrinology of Domestic Animals                      | Biochemistry and Molecular Biology                                    | Core/compulsory |
|   | Systematic and Topographic Veterinary Anatomy                         | Recommended     |
|   | Systematic and Comparative Veterinary Anatomy                         | Core/compulsory |
| Biochemistry and Molecular Biology                                    | Physics, Chemistry, Informatics Biostatistics and English             | Core/compulsory |
| Clinical Biochemistry   | Biochemistry and Molecular Biology                                    | Core/compulsory |
| Systematic and Topographic Veterinary Anatomy                         | Biology, Histology and Embryology                                     | Core/compulsory |
|   | Systematic and Comparative Veterinary Anatomy                         | Core/compulsory |
| Infectious Diseases of Domestic Animals 2 and Veterinary Epidemiology | Veterinary Anatomic Pathology 2                                       | Recommended     |
|   | Veterinary Anatomic Pathology 1                                       | Core/compulsory |
| Systematic and Comparative Veterinary Anatomy                         | Biology, Histology and Embryology                                     | Core/compulsory |
| Special Husbandry and Animal Breeding                                 | Physiology and Ethology of Domestic Animals                           | Core/compulsory |
|   | Physiology and Endocrinology of Domestic Animals                      | Core/compulsory |
| Veterinary Medical Semiotics and Legal Medicine                       | Clinical Biochemistry   | Core/compulsory |
|   | Veterinary Medical Pathology and Clinical Epidemiology                | Recommended     |
| Surgical Pathology, Semiotics and Veterinary Radiology                | Veterinary Anatomic Pathology 2                                       | Core/compulsory |
|   | Veterinary Anatomic Pathology 1                                       | Core/compulsory |
| Veterinary Medical Pathology and Clinical Epidemiology                | Veterinary Anatomic Pathology 2                                       | Core/compulsory |
|   | Veterinary Anatomic Pathology 1                                       | Core/compulsory |
|   | Animal Nutrition  | Core/compulsory |
| General Veterinary Pathology, Veterinary Microbiology and Immunology  | Physiology and Ethology of Domestic Animals                           | Core/compulsory |
|   | Physiology and Endocrinology of Domestic Animals                      | Core/compulsory |
|   | Biology, Histology and Embryology                                     | Core/compulsory |
|   | Systematic and Topographic Veterinary Anatomy                         | Recommended     |
| Infectious Diseases of Domestic Animals and Avian Pathology           | Veterinary Anatomic Pathology 2                                       | Recommended     |
|   | Veterinary Anatomic Pathology 1                                       | Core/compulsory |
| Veterinary parasitology and Parasitic Diseases                        | General Veterinary Pathology, Veterinary Microbiology and Immunology  | Core/compulsory |
| Veterinary Obstetrics, Pathology and Reproductive Technologies        | Veterinary Anatomic Pathology 2                                       | Core/compulsory |
|   | Veterinary Anatomic Pathology 1                                       | Core/compulsory |
| Animal Nutrition  | General Zootechnics and Genetic Improvement                           | Core/compulsory |
|   | Special Husbandry and Animal Breeding                                 | Core/compulsory |
| Inspection of Animal Source Foods 2                                   | Infectious Diseases of Domestic Animals 2 and Veterinary Epidemiology | Core/compulsory |
|   | Infectious Diseases of Domestic Animals and Avian Pathology           | Core/compulsory |
|   | Veterinary Pharmacology and Toxicology                                | Core/compulsory |
| Inspection of Animal Source Foods 1                                   | Veterinary Pharmacology and Toxicology                                | Core/compulsory |
| Veterinary Pharmacology and Toxicology                                | General Veterinary Pathology, Veterinary Microbiology and Immunology  | Core/compulsory |
| Veterinary Internal Medicine and Therapy                              | Infectious Diseases of Domestic Animals 2 and Veterinary Epidemiology | Core/compulsory |
|   | Veterinary Medical Semiotics and Legal Medicine                       | Core/compulsory |
|   | Veterinary Medical Pathology and Clinical Epidemiology                | Core/compulsory |
|   | Infectious Diseases of Domestic Animals and Avian Pathology           | Core/compulsory |
|   | Veterinary Pharmacology and Toxicology                                | Core/compulsory |
| Veterinary Surgical   | Infectious Diseases of Domestic Animals 2 and Veterinary Epidemiology | Core/compulsory |
|   | Surgical Pathology, Semiotics and Veterinary Radiology                | Core/compulsory |

|   |   |                 |
|---|---|-----------------|
|   | Infectious Diseases of Domestic Animals and Avian Pathology           | Core/compulsory |
|   | Veterinary Pharmacology and Toxicology                                | Core/compulsory |
| Veterinary Anesthesiology and Surgical Techniques | Veterinary Pharmacology and Toxicology                                | Core/compulsory |
| Andrology and Obstetrical-Gynecological Clinics   | Infectious Diseases of Domestic Animals 2 and Veterinary Epidemiology | Core/compulsory |
|   | Infectious Diseases of Domestic Animals and Avian Pathology           | Core/compulsory |
|   | Veterinary Obstetrics, Pathology and Reproductive Technologies        | Core/compulsory |
|   | Veterinary Pharmacology and Toxicology                                | Core/compulsory |