UCLouvain

VETE1BA

2024 - 2025

Bachelor in Veterinary Medicine

At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In French
Dissertation/Graduation Project : **NO** - Internship : **YES**
Activities in English: **YES** - Activities in other languages : **NO**
Activities on other sites : **NO**
Main study domain : **Sn English:**

VETE1BA - Introduction

Introduction

VETE1BA - Teaching profile

Learning outcomes

The first year of studies focuses on the acquisition of the core skills and knowledge in the basic sciences such as Chemistry, Biology, Mathematics and Physics.

The general objective of the second and third years is to give the students a solid grounding in the various aspects of the Biology of the most common healthy domestic animals (horses, bovines, ovines, pigs and birds). The courses are conceived in a complementary manner so that the student can integrate them into a coherent ensemble, by means of his individual work and self-study.

In addition to these studies, the bachelor's programme in Veterinary Medicine will enable the student to acquire expertise in documentary research, and in computer-aided preparation and presentations of written and oral reports in French and English.

On successful completion of this programme, each student is able to :

1) Maîtriser et utiliser les principaux concepts des sciences fondamentales et disciplinaires nécessaires à la compréhension de la complexité d'un être vivant.

1.1. Démontrer une compréhension approfondie des concepts de base des sciences fondamentales :

- organiser, par l'étude des concepts fondamentaux de la biologie, ses connaissances disciplinaires dans une perspective évolutionniste et centrées sur l'organisme animal.
- maîtriser, en chimie générale et en chimie organique, la dimension moléculaire de la matière vivante, prérequis indispensable à l'étude de son fonctionnement normal ou anormal.
- maîtriser, en physique et en mathématiques générales, les lois fondamentales de l'univers qui président à tout phénomène, y compris celui de la vie, mais également, plus encore que par l'étude des autres matières, se confronter à la rigueur du raisonnement logique de la démarche scientifique.
- développer, par les probabilités et les statistiques, un esprit d'analyse critique, la maîtrise du raisonnement par hypothèse ainsi que la compréhension et l'interprétation d'un résultat statistique.

- Décrire et appliquer rigoureusement les normes de sécurité et d'hygiène relatives à ces instruments et aux techniques d'analyse et de dissection.

5) Approcher et procéder aux manipulations de base des espèces d'animaux de compagnie et d'animaux de production.

- Maîtriser sans crainte l'abord et le contact physique avec l'animal domestique.
- Prodiguer les soins élémentaires (propreté et alimentation) et appliquer les normes d'hygiène adaptées à chaque espèce.
- Formuler des conseils généraux sur l'entretien et la gestion de ces espèces.
- Etre préparé à aborder efficacement en master la contention de l'animal malade et les soins à lui apporter.

6) Communiquer efficacement et convaincre

6.1 Communiquer en français, oralement ou par écrit :

- Exprimer poliment et précisément à différents types de personnes son opinion sur des sujets relevant de la vie courante, de la santé et de la gestion animales.
- Adapter son discours au niveau de connaissance de son interlocuteur, y compris à propos de sujets complexes relevant de son domaine de compétence.

6.2 Communiquer en anglais :

- Exploiter par lui-même des documents d'ordre général relatifs aux sciences de base et plus complexes et spécialisés en relation avec les matières disciplinaires (niveau C1 de l'échelle européenne CECRL).
- Comprendre l'essentiel de la langue anglaise écrite et orale dans un contexte essentiellement professionnel (niveau C1 CECRL).
- S'exprimer oralement et interagir de manière simple sur les sujets généraux ou relevant de ses enseignements disciplinaires (niveau B2 CECRL).
- Ecrire de façon simple et cohérente sur des sujets d'ordre général ou relevant de ses enseignements disciplinaires (niveau B2 CECRL).

7) Faire preuve d'un sens développé de la responsabilité envers la société, du devoir et de conscience professionnelle.

- Agir en accord avec les règlements, la déontologie et l'éthique.
- Faire constamment preuve du désir d'apprendre.
- Devenir progressivement, dès son entrée à l'Université, le principal acteur de sa propre formation en développant les acquis d'apprentissage précités de façon de plus en plus autonome.

Programme structure

This three year programme consists of an ensemble of courses related to the basic sciences (Biology, Chemistry, Mathematics, Physics), to Philosophy, Sciences common to the different branches of "living organisms" (Biochemistry, Genetics, Biostatistics, Microbiology, Immunology, General Histology, etc.) and the more specific veterinary sciences (Anatomy, Embryology, Physiology, Histology and Ethology of domestic animals and Ethnography and Vegetal Biology related to breeding, etc.).

The proportion of specific veterinary courses increases progressively from the first to the third year of the bachelor's programme.

It is important to note that the vast majority of the theoretical sessions are complemented by practical exercises (TP) or by task-based periods. These "TP" take place in very well-equipped, modern teaching laboratories, in the presence of the lecturers or their assistants.

In the context of the language training focus, each year of the bachelor's programme integrates a block of periods in English, with the last session, in the 3rd year, including a presentation in English on a biological topic.

Principal Subjects

Biology

- A) Cellular Biology and introduction to prokaryotes, protists and mycetes; B) Vegetal Biology; C) Animal Biology (11 credits)
- Vegetal Biology applied to breeding (2 credits)
- Complements in Animal Biology - Nervous System (2 credits)

Physics

- General Physics and elements of Mathematics (22 credits)
- Biophysics (6 credits)

Chemistry and Biochemistry

- General Chemistry (9 credits)
- Organic Chemistry (10 credits)
- Biochemistry (4 credits)
- Metabolic Biochemistry (3 credits)

Anatomy and Embryology of Domestic Animals (33 credits)

Animal Biochemistry, Physiology and Histology

- Animal Biochemistry, Physiology and Histology (6 credits)
- Animal Biochemistry (2 credits)
- Physiology of Domestic Animals (13 credits)
- Special Histology and Domestic Animals (9 credits)
- Animal Cellular Biology (2 credits)

Biostatistics (8 credits)

Immunology (3 credits)

Microbiology (4 credits)

Ethology (4 credits)

Genetics (5 credits)

Ethnography (5 credits)

Integrated Seminars (2 credits)

Philosophy (2 credits)

Computing Science (2 credits)

English (6 credits)

Integrated practical work (5 credits)

				Year 1	2	3
LBIO1112	Organism biology : plants and animals	Matthew Dallemagne (compensates Jean-François Rees) Maryse Hermant (compensates Jean-François Rees) Muriel Quinet	FR [q2] [30h+20h] [5 Credits]	x		
LVETE1111	Plant biology applied to breeding	Muriel Quinet	FR [q2] [22.5h+15h] [3 Credits]	x		
LVETE1312	Ecologie appliquée aux animaux domestiques	Jean-François Cabaraux	FR [q2] [30h+12h] [4 Credits]			x

Physique et mathématiques (14 credits)

LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	

				Year 1	2	3
Biostatistique (7 credits)						
LVETE1262	Biostatistics and information's critical analysis	Mickaël De Backer (compensates Catherine Legrand)	FR [q1] [45h+40h] [7 Credits]		x	
Immunologie (6 credits)						
LBIO1237	Immunology : basis and applications in biology	Jean-Paul Dehoux	FR [q1] [25h+15h] [4 Credits]		x	
LVETE1243	Epidemiology	Jean-Paul Dehoux	FR [q2] [20h+4h] [2 Credits]		x	
Microbiologie (8 credits)						
LBIO1311	Microbiology and virology	Benoît Desguin Thomas Michiels	FR [q1] [40h+15h] [5 Credits]			x
LVETE1311	Parasitologie et mycologie	Tanguy Marcotty	FR [q2] [25h+7h] [3 Credits]			x
Ethologie (4 credits)						
LVETE1230	Domestics Animals Ethology	Marc Vandenheede	FR [q2] [30h+15h] [4 Credits]		x	

				Year 1	2	3
LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adrioueche (coord.) Catherine Avery Ariane Halleux (coord.) Adrien Kefer (compensates Amandine Dumont)	EN [q1] [30h] [3 Credits]		x	
LANG1863	English for Students in Sciences (Upper-Intermediate level)	Ahmed Adrioueche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Sandrine Jacob (coord.) Adrien Kefer (compensates Amandine Dumont) Nevin Serbest Florence Simon (coord.) Marine Volpe	EN [q1 or q2] [30h] [2 Credits]			x

Stage (2 credits)

LVETE1244	Initiation à la ruralité et stage d'immersion en milieu animalier	Isabelle Donnay	FR [q1 or q2] [50h] [2 Credits]

Course prerequisites

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified **in the detailed programme**: their title is followed by a yellow square.

Prerequisites and student's annual programme

As the prerequisite is for CU registration puposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the Academic Regulations and Procedures.

—

 # Prerequisities list

LANG1863 "Anglais interactif pour étudiants en sciences (niveau intermédiaire+)" has prerequisite(s) LANG1861
- LANG1861 - English: reading and listening comprehension of scientific texts

LBRAL2102F "Physiological and nutritional biochemistry : parts 1, 2 and 3" has prerequisite(s) LCHM1371V
- LCHM1371V - Metabolic biochemistry - courses and bibliographic work

LVETE1295 "Compléments de biologie cellulaire animale" has prerequisite(s) LBIO1111
- LBIO1111 - Cell and molecular biology

LVETE1300 "Integrated Seminars" has prerequisite(s) LANG1861
- LANG1861 - English: reading and listening comprehension of scientific texts

LVETE1374 "Physiologie digestive et nutrition des animaux domestiques" has prerequisite(s) LCHM1371V
- LCHM1371V - Metabolic biochemistry - courses and bibliographic work

LVETE1376 "Physiologie des animaux domestiques : physiologie cardio-vasculaire, rénale et respiratoire" has prerequisite(s) LVETE1296
- LVETE1296 - Neuromuscular physiology of domestic animals

LVETE1390 "Histologie spéciale et des animaux domestiques" has prerequisite(s) LBIO1234
- LBIO1234 - Animal histology

The programme's courses and learning outcomes

For each UCLouvain training programme, a reference framework of learning outcomes specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

Detailed programme per annual block

Culture et esprit scientifique

LVETE1101	Introduction to public health and economy	Jean-Paul Dehoux François-Xavier Philippe	FR [q2] [30h] [3 Credits]

VETE1BA - 2ND ANNUAL UNIT

- Mandatory
- Optional
- Not offered in 2024-2025
- Not offered in 2024-2025 but offered the following year
- Offered in 2024-2025 but not the following year
- Not offered in 2024-2025 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content:

Chimie et biochimie

LCHM1271V	Elements of biochemistry	Patrice Soumillion	FR [q1] [20h] [2 Credits]
LCHM1371V	Metabolic biochemistry - courses and bibliographic work	Melissa Page	EN [q2] [30h +15h] [4 Credits]

Anatomie et Embryologie

LVETE1241A	Domestic animals anatomy II (1st part)	Olivier Jacqmot	
LVETE1241B	Domestic animals anatomy II (2d part)		

Ethologie

LVETE1230	Domestics Animals Ethology	Marc Vandenheede	FR [q2] [30h +15h] [4 Credits]

Ethnographie

LVETE1280	Ethnographie et appréciation des animaux domestiques	Christophe Boccart Marc Vandenheede	FR [q2] [45h +20h] [6 Credits]

Anglais

LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adrioueche (coord.) Catherine Avery Ariane Halleux (coord.) Adrien Kefer (compensates Amandine Dumont)	EN [q1] [30h] [3 Credits]

Biosécurité

LVETE1201	Biosecurity and good veterinary practices	Claude Saegerman	EN [q2] [2h +28h] [2 Credits]

VETE1BA - 3RD ANNUAL UNIT

- Mandatory
- Optional
- Not offered in 2024-2025
- Not offered in 2024-2025 but offered the following year
- Offered in 2024-2025 but not the following year
- Not offered in 2024-2025 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content:

Biologie

LVETE1312	Ecologie appliquée aux animaux domestiques	Jean-François Cabaraux	FR [q2] [30h +12h] [4 Credits]

Anatomie et Embryologie

LVETE1342	Anatomy of Domestic Animals	Olivier Jacqmot	FR [q2] [22.5h +22.5h] [3 Credits]

Biochimie, physiologie et histologie animales

LVETE1390			

Génétique

LBIR1352	General genetics	Philippe Baret Annika Gillis (coord.) Jacques Mahillon	FR [q2] [45h +15h] [5 Credits]

Séminaires et exercices intégrés

LVETE1300	Integrated Seminars	Melissa Page (coord.) Muriel Quinet René Rezsohazy Patrice Soumillion	EN [q2] [0h +25h] [2 Credits]
LVETE1381	Integrated exercices	Frédéric Clotman (compensates Jean-François Rees) Cathy Debier Jean-Paul Dehoux Isabelle Donnay (coord.) Françoise Gofflot René Rezsohazy	FR [q1+q2] [0h +50h] [5 Credits]

Anglais

VETE1BA - Information

Access Requirements

Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.
The admission requirements must be met prior to enrolment in the University.

• For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your