

**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 : **Sciences vétérinaires**Organized by: **Faculty of Science (SC)**Programme acronym: **VETE1BA** - Francophone Certification Framework: 6**Table of contents**

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## VETE1BA - Introduction

### Introduction

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## 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.

1.2. Intégrer les principales notions des sciences disciplinaires relatives aux espèces d'animaux de compagnie et d'animaux de production

- En morphologie, faire preuve d'une connaissance approfondie de l'anatomie normale, y compris de son aspect radiologique ; de l'histologie normale des tissus et des organes.
- En embryologie, connaître et comprendre les aspects importants en clinique du développement de l'embryon depuis la fécondation jusqu'à la naissance.
- En physiologie, décrire précisément le fonctionnement et la régulation des différents systèmes d'organes qui composent un animal, y compris le système immunitaire.
- En biochimie, identifier les composants biochimiques de la matière vivante ainsi que spécifier leurs voies de synthèse et de dégradation.
- Intégrer les exigences en termes de gestion, de nutrition, d'environnement et de besoins éthologiques des espèces d'animaux de compagnie et d'animaux de production dont il connaîtra les différentes races.
- Maîtriser également les bases de la génétique moléculaire et factorielle.
- Connaître les caractéristiques générales des principales familles d'agents pathogènes (bactéries, virus, parasites) et les grands principes de leur virulence, prophylaxie et thérapeutique comme prérequis à l'étude des maladies infectieuses étudiées en master.
- Prendre conscience des enjeux que pose la santé animale dans le cadre de la protection de la santé publique et de celle de l'environnement, se former à la démarche clinique du diagnostic.

2) Mobiliser les aptitudes méthodologiques exigées par le niveau universitaire du programme d'étude et le niveau de l'exercice de la profession de médecin vétérinaire

- Comprendre et intégrer un savoir avec rigueur, précision et analyse critique.
- Mesurer son niveau de maîtrise d'un sujet ou d'une matière et approfondir par lui-même un domaine abordé au cours du programme.
- Rechercher avec méthode des informations scientifiques valides et pertinentes, se livrer à leur analyse critique et à leur synthèse.
- Utiliser ces informations pour proposer des solutions à des problématiques scientifiques, sociales ou éthiques.
- Organiser et gérer son temps de travail.
- Structurer et argumenter un raisonnement scientifique.
- Etablir les liens verticaux et transversaux unissant les différents enseignements et concepts afin d'aborder l'animal et son (dys-)fonctionnement dans son ensemble.

3) Travailler en équipe et développer ses habilités relationnelles

- Prendre des décisions éclairées et partagées, écouter, respecter chacun, développer une argumentation cohérente et établir un débat constructif dans le cadre de travaux en groupes.
- Collaborer, dialoguer voire diriger un petit groupe de travail.
- Accroître son sens des responsabilités et sa capacité à gérer et organiser un projet.

4) Maîtriser les techniques expérimentales générales des sciences fondamentales et des matières disciplinaires.

- Manipuler convenablement les instruments, la vaisselle et les réactifs lors des différents laboratoires de sciences fondamentales (chimie, biologie et physique).
- Utiliser correctement les microscopes, les différentes loupes, les principaux instruments de dissection, les instruments de mesure, de prélèvement, d'analyse, etc ... des enseignements disciplinaires.

- 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.
  - Prodiquer 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

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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)

VETE1BA Programme

Detailed programme by subject

- Mandatory
- ✘ Optional
- △ Not offered in 2023-2024
- ⊙ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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...)

				Year		
				1	2	3

Content:

● Biologie (17 credits)

● LBIO1111	Cell and molecular biology	Patrick Dumont Charles Hachez	FR [q1] [30h+20h] [5 Credits] 🌐	X		
● LBIO1112	Organism biology : plants and animals	André Lejeune Jean-François Rees	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

### o Physique et mathématiques (14 credits)

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	FR [q1] [30h+20h] [4 Credits] 🌐	X		
○ LPHY1101	Physics 1	Michel Crucifix Thierry Fichet	FR [q1] [30h+40h] [6 Credits] 🌐	X		
○ LPHY1103	Additional physics	Gabriel Dias de Carvalho Junior Adrien Poncelet	FR [q2] [40h+10h] [4 Credits] 🌐	X		

### o Chimie et biochimie (19 credits)

○ LCHM1111B	General chemistry	Benjamin Elias Alexandru Vlad	FR [q1] [45h+45h] [8 Credits] 🌐	X		
○ LCHM1141A	Organic chemistry	Benjamin Elias (coord.) Charles-André Fustin	FR [q2] [30h+20h] [5 Credits] 🌐	X		
○ LCHM1271V	Elements of biochemistry	Patrice Soumillion	FR [q1] [20h] [2 Credits] 🌐		X	
○ LCHM1371V	Metabolic biochemistry - courses and bibliographic work 🟡	Melissa Page	FR [q2] [30h+15h] [4 Credits] 🌐		X	

### o Anatomie et Embryologie (28 credits)

○ LVETE1141	Anatomy of domestic animals I	Olivier Jacqmot	FR [q1+q2] [45h+37.5h] [8 Credits] 🌐	X		
○ LVETE1241A	Domestic animals anatomy II (1st part)	Olivier Jacqmot	FR [q1] [40h+35h] [6 Credits] 🌐		X	
○ LVETE1241B	Domestic animals anatomy II (2d part)	Olivier Jacqmot	FR [q2] [35h+40h] [7 Credits] 🌐		X	
○ LVETE1250	Embryology of Domestic Animals	Benoît Muylkens	FR [q1] [26h+4h] [3 Credits] 🌐		X	
○ LVETE1342	Anatomy of Domestic Animals	André Moens	FR [q2] [22.5h+22.5h] [3 Credits] 🌐			X

### o Biochimie, physiologie et histologie animales (38 credits)

○ LBIO1234	Animal histology	Anne-Catherine Gérard (compensates Bernard Knoops)	FR [q1] [20h+20h] [4 Credits] 🌐		X	
○ LVETE1390	Histologie spéciale et des animaux domestiques 🟡	Françoise Gofflot	FR [q1] [45h+60h] [8 Credits] 🌐			X
○ LBRAL2102F	Physiological and nutritional biochemistry : parts 1, 2 and 3 🟡	Cathy Debier Yvan Larondelle	EN [q1] [24h] [2 Credits] 🌐 > French-friendly			X
○ LVETE1295	Animal cell biology : complements	Pierre Morsomme Valérie Van der Eecken (compensates Bernard Knoops)	FR [q2] [26h] [3 Credits] 🌐		X	
○ LVETE1296	Physiologie générale	Isabelle Donnay	FR [q2] [22.5h+6h] [3 Credits] 🌐		X	
○ LBIO1338	Travaux pratiques intégrés de physiologie, histologie et biochimie animales 🟡	Bernard Knoops Melissa Page Jean-François Rees	FR [q2] [0h+22.5h] [2 Credits] 🌐			X
○ LVETE1374	Physiologie digestive et nutrition des animaux domestiques	Cathy Debier Emeline Dierge (compensates Yvan Larondelle) Yvan Larondelle	FR [q2] [60h+4h] [6 Credits] 🌐			X
○ LVETE1373A	Physiologie des animaux domestiques : endocrinologie et reproduction	Isabelle Donnay	FR [q1] [45h+9h] [5 Credits] 🌐			X
○ LVETE1373B	Physiologie des animaux domestiques : physiologie cardio-vasculaire, rénale et respiratoire 🟡	Isabelle Donnay	FR [q1] [45h+15h] [6 Credits] 🌐			X

### o Biostatistique (7 credits)

○ LVETE1262	Biostatistics and information's critical analysis	Mickaël De Backer (compensates Catherine Legrand)	FR [q1] [45h+40h] [7 Credits] 🌐		X	
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### o Immunologie (6 credits)

○ LBIO1237	Immunology : basis and applications in biology	Jean-Paul Dehoux	FR [q1] [25h+15h] [4 Credits] 🌐		X	
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				Year		
				1	2	3
○ LVETE1243	Epidemiology	Jean-Paul Dehoux	FR [q2] [20h+4h] [2 Credits] 🌐		x	
<b>○ Microbiologie (8 credits)</b>						
○ 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
<b>○ Ethologie (4 credits)</b>						
○ LVETE1230	Domestic Animals Ethology	Marc Vandenneede	FR [q2] [30h+15h] [4 Credits] 🌐		x	
<b>○ Génétique (5 credits)</b>						
○ LBIR1352	General genetics	Jean-François Dumasy (compensates) Philippe Baret Annika Gillis (coord.) Jacques Mahillon (compensates) Philippe Baret	FR [q2] [45h+15h] [5 Credits] 🌐			x
<b>○ Ethnographie (6 credits)</b>						
○ LVETE1280	Ethnographie et appréciation des animaux domestiques	Christophe Boccart Marc Vandenneede	FR [q2] [45h+20h] [6 Credits] 🌐		x	
<b>○ Philosophie, éthologie et éthique (4 credits)</b>						
○ LSC1120	Philosophy, ethology and ethics	Charles Pence	FR [q1] [60h] [4 Credits] 🌐	x		
<b>○ Informatique (3 credits)</b>						
○ LSC1181	Documentation research and computer tools	Frédéric Brodtkom	FR [q1] [20h+10h] [3 Credits] 🌐	x		
<b>○ Séminaires et exercices intégrés (7 credits)</b>						
○ LVETE1300	Integrated Seminars 🟡	Melissa Page (coord.) Muriel Quinet René Rezsöhazi Patrice Soumillion	FR [q2] [0h+25h] [2 Credits] 🌐			x
○ LVETE1381	Integrated exercises	Cathy Debier Jean-Paul Dehoux Isabelle Donnay (coord.) Françoise Gofflot Jean-François Rees René Rezsöhazi	FR [q1+q2] [0h+50h] [5 Credits] 🌐			x
<b>○ Anglais (7 credits)</b>						
○ LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Marc Piwnik	EN [q2] [10h] [2 Credits] 🌐	x		
○ LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouèche (coord.) Catherine Avery Amandine Dumont Ariane Halleux (coord.)	EN [q1] [30h] [3 Credits] 🌐		x	
○ LANG1863	English for Students in Sciences (Upper-Intermediate level) 🟡	Ahmed Adriouèche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Sandrine Jacob (coord.) Nevin Serbest Florence Simon Françoise Stas (coord.)	EN [q1 or q2] [30h] [2 Credits] 🌐			x

Year

1 2 3

## o Stage (2 credits)

o LVETE1244	Initiation à la ruralité et stage d'immersion en milieu animalier	Isabelle Donnay	FR [q1 or q2] [50h] [2 Credits] 🌐			X
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## o Culture et esprit scientifique (3 credits)

o LVETE1101	Introduction to public health and economy	Jean-Paul Dehoux François-Xavier Philippe	FR [q2] [30h] [3 Credits] 🌐	X		
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## o Biosécurité (2 credits)

o LVETE1201	Biosecurity and good veterinary practices	Jean-Paul Dehoux Claude Saegerman	FR [q2] [2h+28h] [2 Credits] 🌐		X	
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## ⌘ Optional courses

These credits are not counted within the 120 required credits.

⌘ LSST1001	IngénieursSud	Stéphanie Merle Jean-Pierre Raskin (coord.)	FR [q1+q2] [15h+45h] [5 Credits] 🌐			X
⌘ LSST1002M	Information and critical thinking - MOOC	Myriam De Kesel Jean-François Rees	FR [q2] [30h+15h] [3 Credits] 🌐			X



## 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 purposes 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](https://uclouvain.be/fr/decouvrir/rgee.html) (<https://uclouvain.be/fr/decouvrir/rgee.html>).

### # Prerequisites list

- LANG1863** "Anglais interactif pour étudiants en sciences (niveau intermédiaire+)" has prerequisite(s) LANG1861
- LANG1861 - [English: reading and listening comprehension of scientific texts](#)
- LBIO1338** "Travaux pratiques intégrés de physiologie, histologie et biochimie animales" has prerequisite(s) LBIO1234
- LBIO1234 - [Animal histology](#)
- LBRAL2102F** "Physiological and nutritional biochemistry : parts 1, 2 and 3" has prerequisite(s) LCHM1271V
- LCHM1271V - [Elements of biochemistry](#)
- LCHM1371V** "Metabolic biochemistry - cours et travail bibliographique" has prerequisite(s) LBIO1111 ET LCHM1141A
- LBIO1111 - [Cell and molecular biology](#)
  - LCHM1141A - [Organic chemistry](#)
- LVETE1300** "Integrated Seminars" has prerequisite(s) LANG1861
- LANG1861 - [English: reading and listening comprehension of scientific texts](#)
- LVETE1373B** "Physiologie des animaux domestiques : physiologie cardio-vasculaire, rénale et respiratoire" has prerequisite(s) LVETE1296
- LVETE1296 - [Physiologie générale](#)
- 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

### VETE1BA - 1ST ANNUAL UNIT

- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊙ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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...)

## o Content:

### o Biologie

LBIO1111	Cell and molecular biology	Patrick Dumont Charles Hachez	EB [q1] [30h +20h] [5 Credits]
LBIO1112	Organism biology : plants and animals	André Lejeune Jean-François Rees	EB [q2] [30h +20h] [5 Credits]
LVETE1111	Plant biology applied to breeding	Muriel Quinet	EB [q2] [22.5h +15h] [3 Credits]

### o Physique et mathématiques

LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	EB [q1] [30h +20h] [4 Credits]
LPHY1101	Physics 1	Michel Crucifix Thierry Fichet	EB [q1] [30h +40h] [6 Credits]
LPHY1103	Additional physics	Gabriel Dias de Carvalho Junior Adrien Poncelet	EB [q2] [40h +10h] [4 Credits]

### o Chimie et biochimie

LCHM1111B	General chemistry	Benjamin Elias Alexandru Vlad	EB [q1] [45h +45h] [8 Credits]
LCHM1141A	Organic chemistry	Benjamin Elias (coord.) Charles-André Fustin	EB [q2] [30h +20h] [5 Credits]

### o Anatomie et Embryologie

LVETE1141	Anatomy of domestic animals I	Olivier Jacqmot	EB [q1+q2] [45h +37.5h] [8 Credits]
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### o Philosophie, éthologie et éthique

LSC1120	Philosophy, ethology and ethics	Charles Pence	EB [q1] [60h] [4 Credits]
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### o Informatique

LSC1181	Documentation research and computer tools	Frédéric Brodcom	EB [q1] [20h +10h] [3 Credits]
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### o Anglais

LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Marc Piwnik	EB [q2] [10h] [2 Credits]
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o Culture et esprit scientifique

o LVETE1101	Introduction to public health and economy	Jean-Paul Dehoux François-Xavier Philippe	100 [q2] [30h] [3 Credits] 
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**VETE1BA - 2ND ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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...)

**o Content:****o Chimie et biochimie**

● LCHM1271V	<a href="#">Elements of biochemistry</a>	Patrice Soumillion	FR [q1] [20h] [2 Credits] 🌐
● LCHM1371V	<a href="#">Metabolic biochemistry - courses and bibliographic work</a> ■	Melissa Page	EN [q2] [30h +15h] [4 Credits] 🌐

**o Anatomie et Embryologie**

● LVETE1241A	<a href="#">Domestic animals anatomy II (1st part)</a>	Olivier Jacqmot	FR [q1] [40h +35h] [6 Credits] 🌐
● LVETE1241B	<a href="#">Domestic animals anatomy II (2d part)</a>	Olivier Jacqmot	FR [q2] [35h +40h] [7 Credits] 🌐
● LVETE1250	<a href="#">Embryology of Domestic Animals</a>	Benoît Muykens	FR [q1] [26h +4h] [3 Credits] 🌐

**o Biochimie, physiologie et histologie animales**

● LBIO1234	<a href="#">Animal histology</a>	Anne-Catherine Gérard (compensates Bernard Knoops)	FR [q1] [20h +20h] [4 Credits] 🌐
● LVETE1295	<a href="#">Animal cell biology : complements</a>	Pierre Morsomme Valérie Van der Eecken (compensates Bernard Knoops)	FR [q2] [26h] [3 Credits] 🌐
● LVETE1296	<a href="#">Physiologie générale</a>	Isabelle Donnay	FR [q2] [22.5h +6h] [3 Credits] 🌐

**o Biostatistique**

● LVETE1262	<a href="#">Biostatistics and information's critical analysis</a>	Mickaël De Backer (compensates Catherine Legrand)	FR [q1] [45h +40h] [7 Credits] 🌐
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**o Immunologie**

● LBIO1237	<a href="#">Immunology : basis and applications in biology</a>	Jean-Paul Dehoux	FR [q1] [25h +15h] [4 Credits] 🌐
● LVETE1243	<a href="#">Epidemiology</a>	Jean-Paul Dehoux	FR [q2] [20h +4h] [2 Credits] 🌐

### o Ethologie

LVETE1230	Domestic Animals Ethology	Marc Vandenheede	PS [q2] [30h +15h] [4 Credits] 🌐
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### o Ethnographie

LVETE1280	Ethnographie et appréciation des animaux domestiques	Christophe Boccart Marc Vandenheede	PS [q2] [45h +20h] [6 Credits] 🌐
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### o Anglais

LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouche (coord.) Catherine Avery Amandine Dumont Ariane Halleux (coord.)	PS [q1] [30h] [3 Credits] 🌐
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### o Biosécurité

LVETE1201	Biosecurity and good veterinary practices	Jean-Paul Dehoux Claude Saegerman	PS [q2] [2h +28h] [2 Credits] 🌐
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## VETE1BA - 3RD ANNUAL UNIT

- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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...)

## o Content:

### o Biologie

○ LVETE1312	<a href="#">Ecologie appliquée aux animaux domestiques</a>	Jean-François Cabaraux	(FR) [q2] [30h +12h] [4 Credits] 🌐
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### o Anatomie et Embryologie

○ LVETE1342	<a href="#">Anatomy of Domestic Animals</a>	André Moens	(FR) [q2] [22.5h +22.5h] [3 Credits] 🌐
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### o Biochimie, physiologie et histologie animales

○ LVETE1390	<a href="#">Histologie spéciale et des animaux domestiques</a> ■	Françoise Gofflot	(FR) [q1] [45h +60h] [8 Credits] 🌐
○ LBRAL2102F	<a href="#">Physiological and nutritional biochemistry : parts 1, 2 and 3</a> ■	Cathy Debier Yvan Larondelle	(FR) [q1] [24h] [2 Credits] 🌐 > French-friendly
○ LBIO1338	<a href="#">Travaux pratiques intégrés de physiologie, histologie et biochimie animales</a> ■	Bernard Knoops Melissa Page Jean-François Rees	(FR) [q2] [0h +22.5h] [2 Credits] 🌐
○ LVETE1374	<a href="#">Physiologie digestive et nutrition des animaux domestiques</a>	Cathy Debier Emeline Dierge (compensates Yvan Larondelle) Yvan Larondelle	(FR) [q2] [60h +4h] [6 Credits] 🌐
○ LVETE1373A	<a href="#">Physiologie des animaux domestiques : endocrinologie et reproduction</a>	Isabelle Donnay	(FR) [q1] [45h +9h] [5 Credits] 🌐
○ LVETE1373B	<a href="#">Physiologie des animaux domestiques : physiologie cardio-vasculaire, rénale et respiratoire</a> ■	Isabelle Donnay	(FR) [q1] [45h +15h] [6 Credits] 🌐

### o Microbiologie

○ LBIO1311	<a href="#">Microbiology and virology</a>	Benoît Desguin Thomas Michiels	(FR) [q1] [40h +15h] [5 Credits] 🌐
○ LVETE1311	<a href="#">Parasitologie et mycologie</a>	Tanguy Marcotty	(FR) [q2] [25h +7h] [3 Credits] 🌐

### o Génétique

○ LBIR1352	General genetics	Jean-François Dumasy (compensates) Philippe Baret Annika Gillis (coord.) Jacques Mahillon (compensates) Philippe Baret	ES [q2] [45h +15h] [5 Credits] 🌐
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### o Séminaires et exercices intégrés

○ LVETE1300	Integrated Seminars 🇺🇦	Melissa Page (coord.) Muriel Quinet René Rezsóhazy Patrice Soumillon	ES [q2] [0h +25h] [2 Credits] 🌐
○ LVETE1381	Integrated exercises	Cathy Debier Jean-Paul Dehoux Isabelle Donnay (coord.) Françoise Gofflot Jean-François Rees René Rezsóhazy	ES [q1+q2] [0h +50h] [5 Credits] 🌐

### o Anglais

○ LANG1863	English for Students in Sciences (Upper-Intermediate level) 🇺🇦	Ahmed Adriouèche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Sandrine Jacob (coord.) Nevin Serbest Florence Simon Françoise Stas (coord.)	ES [q1 or q2] [30h] [2 Credits] 🌐
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### o Stage

○ LVETE1244	Initiation à la ruralité et stage d'immersion en milieu animalier	Isabelle Donnay	ES [q1 or q2] [50h] [2 Credits] 🌐
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### ⌘ Optional courses

These credits are not counted within the 120 required credits.

⌘ LSST1001	IngénieuxSud	Stéphanie Merle Jean-Pierre Raskin (coord.)	ES [q1+q2] [15h +45h] [5 Credits] 🌐
⌘ LSST1002M	Information and critical thinking - MOOC	Myriam De Kesel Jean-François Rees	ES [q2] [30h +15h] [3 Credits] 🌐

## 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.

**In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.**

#### SUMMARY

- [General access requirements](#)
- [Specific access requirements](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

### General access requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](https://uclouvain.be/fr/etudier/inscriptions/examens-admission.html) (https://uclouvain.be/fr/etudier/inscriptions/examens-admission.html) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium, the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

#### Note:

Requests for equivalence must be submitted to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

### Specific access requirements

- Access to bachelor programmes for candidates of nationality outside the European Union who are not assimilated to Belgian nationals is subject to the following criteria:
  - not have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2023-2024, you must have obtained your diploma during the academic years 2020-2021, 2021-2022 ou 2022-2023. In the French Community of Belgium, the academic year runs from September 14 to September 13
  - not already hold an undergraduate degree
- Candidates, whatever their nationality, with a secondary school diploma **from a country outside the European Union**, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences). A non-successful year will not be taken into consideration.



- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to [the following site](#).
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the [equivalence of your diploma](#) issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the [DAES](#) or a certificate of successful completion of the [examination giving access to 1<sup>st</sup> cycle studies](#) when you submit your application

## Access based on validation of professional experience

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

## Special requirements to access some programmes

- Admission to **undergraduate studies in engineering: civil engineering and architect**

Pass certificate for the [special entrance examination for undergraduate studies in engineering: civil engineering and architect](https://uclouvain.be/fr/facultes/epl/examenadmission.html) (<https://uclouvain.be/fr/facultes/epl/examenadmission.html>).

Admission to these courses is always subject to students passing the special entrance examination. Contact the faculty office for the programme content and the examination arrangements.

- Admission to **undergraduate studies in veterinary medicine**

[Admission to undergraduate studies in veterinary medicine is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- Admission to **undergraduate studies in physiotherapy and rehabilitation**

[Admission to undergraduate studies in physiotherapy and rehabilitation is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>)

- Admission to **undergraduate studies in psychology and education: speech and language therapy**

[Admission to undergraduate studies in psychology and education: speech and language therapy is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- Admission to **undergraduate studies in medicine and dental science**

[Admission to undergraduate studies in medicine and dental science is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>)

Note: students wishing to enrol for a **Bachelor's degree in Medicine** or a **Bachelor's degree in dental science** must first sit an [aptitude test \(fr\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

## Teaching method

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Des séances sont organisées au cours de la première année autour des questions de méthode de travail, par exemple la gestion du temps ou la manière d'aborder les différentes matières.

Outre des rapports à remettre ou des contrôles de connaissances au début de certaines séances de laboratoires, des interrogations obligatoires intervenant dans la note finale de chaque matière sont organisées après un mois de cours au premier quadrimestre.

Les exercices et laboratoires sont organisés en petits groupes et sont encadrés par des assistants. Les monitorats permettent à ceux qui le souhaitent de faire le point sur les matières vues au cours : les enseignants de chaque discipline répondent aux questions des étudiants et expliquent les points moins bien compris.

La plupart des enseignements disposent également d'un site internet ou est déposée une série d'informations utiles pour l'étude.

## Evaluation

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**The evaluation methods comply with the regulations concerning studies and exams (<https://uclouvain.be/fr/decouvrir/rgee.html>). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".**

Différentes modalités sont mises en oeuvre pour l'évaluation des connaissances et des compétences acquises au cours de la formation; elles sont adaptées aux types de prestations : évaluation continue notamment pour les exercices pratiques, évaluation des travaux personnels et de groupe, évaluation globale (écrite et/ou orale) durant les sessions d'examens.

## Mobility and/or Internationalisation outlook

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International mobility is recommended rather within the framework of master programmes.

Moreover, participation in a short mobility can be envisaged at the end of the bachelor's degree in the framework of the Athens network <https://www.paristech.fr/fr/international/europe/athens>

## Possible trainings at the end of the programme

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Positioning of the programme within the University cursus

Successful completion of this programme entitles direct access to the master's in Veterinary Medicine, organised by the University of Liege.

Other studies accessible upon completion of the programme

## Contacts

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### Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SST/SC/VETE

(VETE)

Faculty of Science (SC)

Sciences and Technology (SST)

VETE

Croix du sud 4-5 - bte L7.07.10

1348 Louvain-la-Neuve

Website

<https://uclouvain.be/fr/facultes/sc/vete>

Academic supervisor: Isabelle Donnay

Jury

- Isabelle Donnay
- Françoise Gofflot

Useful Contact(s)

- Nathalie Micha

- Catherine De Roy

