

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

Introduction	2
Teaching profile	3
Learning outcomes	

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

- 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

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)

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](#).

Prerequisites list

- LANG1863** "Anglais interactif pour étudiants en sciences (niveau intermédiaire+)" has prerequisite(s) LANG1861
- LANG1861 - [English: reading and listening comprehension of scientific texts](#)
- LBAL2102F** "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 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 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...)

o **Content:**

o **Biologie**

o LBIO1111	Cell and molecular biology	Patrick Dumont Charles Hachez	Cell and molecular biology
------------	----------------------------	----------------------------------	----------------------------

o Culture et esprit scientifique

o LVETE1101	Introduction to public health and economy	Jean-Paul Dehoux François-Xavier Philippe	100 [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...)

o Content:

o Chimie et biochimie

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

o Anatomie et Embryologie

○ LVETE1244A	Domestic animals anatomy I (1st part)	Christophe EB	EB [q1] [40h] +35h] [6 Credits]
○ LVETE1241B	Domestic animals anatomy II (2d part)	Olivier Jacqumot	EN [q2] [35h] +40h] [7 Credits]
○ LVETE1250	Embryology of Domestic Animals	Benoît Muykens	EB [q1] [26h] +4h] [3 Credits]

o Biochimie, physiologie et histologie animales

○ LBIO1234	Animal histology	Anne-Catherine Gérard (compensates Bernard Knoops)	EB [q1] [20h] +20h] [4 Credits]
○ LVETE1295	Animal cell biology : complements		

o Ethologie

○ LVETE1230	Domestic Animals Ethology	Marc Vandenheede	PS [q2] [30h +15h] [4 Credits] 🌐
-------------	---------------------------	------------------	---

o Ethnographie

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

o Anglais

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

o Biosécurité

○ LVETE1201	Biosecurity and good veterinary practices	Claude Saegerman	
-------------	---	------------------	--

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...)

o Content:

o Biologie

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

o Anatomie et Embryologie

○ LVETE1342	Anatomy of Domestic Animals	Olivier Jacqmot	(FR) [q2] [22.5h +22.5h] [3 Credits] 🌐
-------------	---	-----------------	---

o Biochimie, physiologie et histologie animales

○ LVETE1390	Histologie spéciale et des animaux domestiques ■	Françoise Gofflot	(FR) [q1] [45h +60h] [8 Credits] 🌐
○ LBRAL2102F	Physiological and nutritional biochemistry : parts 1, 2 and 3 ■	Cathy Debier Emeline Dierge	(FR) [q1] [24h] [2 Credits] 🌐 > French-friendly
○ LBIO1338	Travaux pratiques intégrés de physiologie, histologie et biochimie animales	Melissa Page Jean-François Rees	(FR) [q2] [0h +22.5h] [2 Credits] 🌐
○ LVETE1374	Physiologie digestive et nutrition des animaux domestiques ■	Jean-François Cabaraux Cathy Debier	(FR) [q2] [60h +4h] [6 Credits] 🌐
○ LVETE1375	Domestic animals physiology: endocrinology and reproduction	Isabelle Donnay	(FR) [q1] [45h +9h] [5 Credits] 🌐
○ LVETE1376	Domestic animals physiology: cardiovascular, renal and respiratory physiology ■ <i>Registration for this teaching unit (TU) must be combined with registration for TU LVETE1375, unless credits for LVETE1375 have already been acquired.</i>	Isabelle Donnay	(FR) [q1] [45h +15h] [6 Credits] 🌐

o Microbiologie

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

o **Génétique**



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](#) 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 2024-2025, you must have obtained your diploma during the academic years 2021-2022, 2022-2023 ou 2023-2024. In the French Community of Belgium, the academic year runs from September 14 to September 13
 - not already hold an undergraduate degree
-

- 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 1st 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](#).

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 \(non-residents\)](#).

- 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 \(non-residents\)](#).

- 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 \(non-residents\)](#).

- 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 \(non-residents\)](#).

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 \(fr\)](#).

- Access to

Teaching method

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

