

1st Level Degree Course in:

Formerly

Hygiene and animal health

replaced with the correct definition:

Bachelor in Veterinary Engineer

**Filère des Ingénieurs des Travaux en
Sciences Vétérinaires**





Training objectives

Graduates of the class, identified as “operators of veterinary technical area”, performing the following duties:

- **to assist the veterinary activities,**
- **zoo iatric service functions and assistance ,**
- **service functions to control of the food of animal origin,**
- **laboratory activities on veterinary diagnostic.**





- Degree in Bachelor in Veterinary Engineer, **is not a short degree of Veterinary Medicine,**
- it does not provide the title of Junior Veterinarian.
- The enrolment to this degree does not give access to the Bachelor in Veterinary Medicine, constituting a separate and independent path.





The graduates undertake their auxiliary functions

- to support operational activities of the veterinarian,
- interacting with other operators of the field.

Graduates of the class will perform auxiliary functions

- autonomously where there are no veterinarians,
- or under the supervision of the veterinarian, if any.



Graduates of the class will perform auxiliary functions in following tasks:

- control activities of health status of animal populations, wild and domestic, including, livestock, aquaculture;
- activities of pre-and post-mortem inspection of animals intended for human consume.
- control activities of structures that process and transform products of animal origin
- laboratory procedures in clinical investigations, clinical pathology, microbiology, immunology, applied to animal health and food control



Graduates in the class have to be properly trained

- in the basic disciplines
- Applied disciplines:

- 1) farming systems,
- 2) nutrition animal
- 3) mechanisms of emergence, transmission and spread of infectious animal diseases and animal disease processes

These elements are essential for preventive intervention and control in the production chain of food-animal sector.



The degree allows the preparation in the following fields

1° Vocational (curriculum) : animal health

⇒ health management of farming animals

2° Vocational (curriculum): hygiene and Safety of food animal origin

⇒ health management of quality of animal products

3° Vocational (curriculum): Veterinary Diagnostic Laboratory

⇒ laboratory procedures in clinical investigations, clinical pathology, microbiology, immunology, applied to animal health and food control



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(* In this phase CM includes both hours of CM, TD, TP.

1° year (Common to the three curricula)

Courses	CFU	Hours of frontal lessons CM (*)	Work at home TPE	Total Hours
1° Semester				
Mathematics and Biostatistic (integrated course)	6	90	60	150
<i>Mathematics</i>	3	45	30	75
<i>Biostatistic</i>	3	45	30	75
Organic and inorganic chemistry	6	90	60	150
Botanic	4	60	40	100
Zoology	5	75	50	125
Anatomy, histology and embryology of domestic animals (integrated course)	9	135	90	225
<i>Anatomy</i>	6	90	60	150
<i>histology and embryology</i>	3	45	30	75
Total	30	450	300	750



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1° year (Common to the three curricula)

Courses	CFU	Hours of frontal lessons CM	Work at home TPE	Total Hours
2° Semester				
Applied biochemistry and metabolism	6	90	60	150
Genetics	3	45	30	75
General Animal Husbandry and Elements and techniques of genetic breeding	4	60	40	100
Physiology of domestic animals	8	120	80	200
Bioinformatics	3	45	30	75
Others language	6	90	60	150
Total	30	450	300	750



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2° year (Common to the three curricula)

Courses	CFU	Hours of frontal lessons CM	Work at home TPE	Total Hours
1° Semester				
Animal farming: milk and meat production	6	90	60	150
General Veterinary pathology and physiopathology	6	90	60	150
Introduction to Veterinary legislation	6	90	60	150
Veterinary microbiology and hygiene	7	105	70	175
Parasitology of domestic animals	5	75	50	125
Total	30	450	300	750



LIVE - Linking Institutions for Veterinary Education



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Courses	CFU	Hours of frontal lessons CM	Work at home TPE	Total Hours
2° Semester				
Parasitic disease	6	90	60	150
infectious diseases	6	90	60	150
Animal nutrition and feeding	6	90	60	150
Avian breeding and pathology	6	90	60	150
Aquaculture and fish diseases	6	90	60	150
Total	30	450	300	750

1° Curriculum: Animal health

IT TRAINS EXPERTS OF:

health management of livestock

and fish farm in collaboration with veterinarians.

Diagnostic procedures



3° year

Courses	CFU	Hours of frontal lessons CM	Work at home TPE	Total Hours
1° Semester				
Elements of veterinary surgery for assistant	6	90	60	150
Elements of veterinary clinics for assistant	6	90	60	150
Veterinary pharmacology and toxicology	6	90	60	150
Epidemiology and prophylaxis of infectious diseases	6	90	60	150
Pathophysiology of reproduction and artificial insemination	6	90	60	150
Total	30	450	300	750



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Others Activity	CFU	Hours of frontal lessons CM	Work at home TPE	Total Hours
2° Semester				
Thesis	8	0	200	200
Seminars	6	150	0	150
Training activity in the field	15	0	375	375
<i>Total Others Activity</i>	30	150	575	725
Total per 3 years	180	2700	1800	4500



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2° Curriculum: Hygiene and Safety of food animal origin

IT TRAINS EXPERTS OF:

health management of animal derived products.

Practical control of food animal origin.

Diagnostic procedures for the control of Food security



3° year

Courses	CFU	Hours of frontal lessons	Work at home TPE	Total Hours
1° Semester				
Veterinary Anatomopathology	6	90	60	150
Food industry of animal derived products	6	90	60	150
Laboratory of control quality and safety of animal derived products	6	90	60	150
Higiene and control of food animal origin	6	90	60	150
Pratic inspection to slaughterhaus	6		150	150
Total	30	300	390	750



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3° Curriculum: Veterinary Diagnostic Laboratory

IT TRAINS EXPERTS OF:

diagnostic procedures in veterinary laboratories

laboratory techniques in public and private laboratories involved in clinical investigations, clinical pathology, microbiology, immunology, applied to animal health and food control

3° year

Courses	CFU	Hours of frontal lessons	Work at home TPE	Total Hours
1° Semester				
Histopathological and Cytological diagnosis	6	150	0	150
Biomolecular techniques	6	150	0	150
Immunology techniques and Clinical pathology laboratory	6	150	0	150
Microbiology laboratory	6	150	0	150
Parassitology laboratory	6	150	0	150
Total	30	600	0	750



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Employment opportunities





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