



Veterinary education in Europe

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for Veterinary Education

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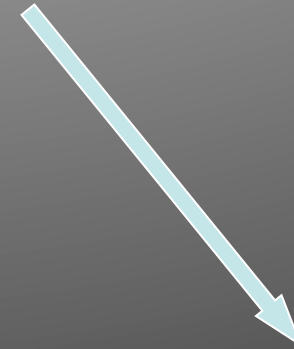


Veterinary Medicine

Admission (0-2yr)



Basic training (5-6yr)



Clinical training (4yr)

MSc-PhD (4yr)



General practitioner

Specialist

Academic



Veterinary education in EU

- Basic training
- Specialisation
- Research training
- Continuing education



Basic training

- Bachelor level (180 credits, pre-clinical)
- Master level (180 credits, clinical)



Specialisation

By discipline:

- European College of Veterinary **Anaesthesia**
- European College of Veterinary **Diagnostic Imaging**
- European College of Veterinary **Internal Medicine**
- European College of Veterinary **Neurology**
- European College of Veterinary **Ophthalmologists**
- European College of Veterinary **Surgeons**
- European College of Animal **Reproduction**
- European College of Veterinary **Clinical Pathology**
- European College of Veterinary **Dermatology**
- European College of Veterinary **Pathologists**
- European College of Veterinary **Pharmacology and Toxicology**
- European College of Veterinary **Dental Medicine**
- European College of **Laboratory Animal Medicine**
- European College of Veterinary **Behavioural Medicine**
- European College of Veterinary and Comparative **Nutrition**
- European College of **Veterinary Public Health**
- European College of Veterinary **Parasitology**



Specialisation

By species:

- European College of **Bovine** Health Management
- European College of **Porcine** Health Management
- European College of **Avian** Medicine and Surgery
- European College of **Equine** Internal Medicine



Research training

- MSc (60 credits)
- PhD (180 credits)



Continuing education

- Compulsory for :
 - Veterinary Public Health matters
 - keeping the specialist status
- Highly encouraged for the other topics



Competencies

- **Skill** - ability to perform specific tasks
- **Knowledge** - cognitive abilities
- **Aptitude** - a student's natural ability for learning
- **Attitude** - affective abilities, contact with clients



Evaluation of the veterinary training

Basic policy of the UE:

- free movement of people, goods and services (eg regulated professions)
- mutual recognition of academic degrees and titles

Consequently **harmonisation & evaluation** of professional training are required

Veterinary profession is presently the only profession subject to « voluntary » evaluation



Historical overview

- • Up to 1978: each country and faculty had a curriculum based on local regulation-tradition
- 1978: EU directives 1026 & 1027 required harmonisation & defined minimum standards for the 9 member states
- 1988: foundation of **EAEVE**
- 2005: new EU Directive 36/2005 describing the minimum curriculum for veterinary training



Training standards based on EU Directive 36/2005

- 5-year curriculum (*minimum*)
- Definition and listing of basic and clinical subjects, public health, food hygiene, animal welfare
- Concept of hands-on-clinical teaching in common domestic species (pet, horse, cattle, pig, poultry, ..)
- Evidence-based medicine, research-based teaching, problem-solving learning
- Concept of 'omnicompetent' veterinary graduate with 'day+1 skills'



Basic subjects

- Physics
- Chemistry
- Animal biology
- Plant biology
- Biomathematics



Specific subjects: pre-clinical sciences

- Anatomy
- Histology & embryology
- Physiology
- Biochemistry
- Genetics
- Pharmacology & Pharmacy
- Toxicology
- Microbiology
- Immunology
- Epidemiology
- Professional ethics



Specific subjects: clinical sciences

- Obstetrics & reproductive disorders
- Pathology
- Infectiology
- Clinical medicine
- surgery & anaesthesiology
- Preventive medicine
- Diagnostic imaging
- Veterinary public health
- Veterinary legislation and forensic medicine
- Therapeutics
- ...



Specific subjects: animal production

- Animal production
- Animal nutrition
- Rural economics
- Animal husbandry
- Veterinary hygiene
- Animal ethology, protection & welfare



Specific subjects: food hygiene

- Inspection & control of animal foodstuffs or of animal origin
- Food hygiene and technology
- Practical work in slaughtering and processing of foodstuffs



Evaluation Process

- Faculty applies for the evaluation
- Faculty prepares **Self Evaluation Report**
- Expert team conducts the **on-site visit** and delivers report
- EAEVE-FVE : evaluation report and **final decision**
- Procedure in agreement with the rules of **ENQA** (the European Association for Quality Assurance in Higher Education)



Self Evaluation Report

- OBJECTIVES
- ORGANISATION & FINANCES
- CURRICULUM
- TEACHING AND LEARNING
- INFRASTRUCTURE & EQUIPMENT
- ANIMALS AND TEACHING MATERIAL
- LIBRARY AND LEARNING RESOURCES
- STUDENT ADMISSION AND ENROLMENT
- ACADEMIC AND SUPPORT STAFF
- CONTINUING PROFESSIONAL EDUCATION
- POSTGRADUATE EDUCATION
- RESEARCH



On-site Visit

- 5 Experts from different countries :
 - Basic Sciences
 - Clinical Sciences (academic teacher)
 - Clinical Sciences (practitioner)
 - Animal Production
 - Food Hygiene
- + 1 EAEVE Coordinator
- + 1 undergraduate student (observer)

- Standard 4-day visiting timetable



Final decision

- Approved
(for a 10-year period)
- Conditionally approved
(minor deficiencies able to be quickly and fully corrected)
- Not approved

Evaluation report and final decision available on the Faculty and EAEVE websites



Examples of major deficiencies

- Inadequate facilities (clinics, necropsy, ..)
- Inadequate biosafety procedures
- Inadequate case load & teaching in specific species
- Inadequate hands-on teaching (group size...)
- ..



Current Evaluation Status

- ~100 Veterinary Faculties in EU:
 - Approved: 50
 - Conditionally approved: 2
 - Not approved: 14
 - Not visited yet: 35



Future developments

- Joint effort between EAEVE and
 - similar organizations from other continents
 - OIE (Office International des Epizooties)
 - On the way to a Global Evaluation System ?