

## **ECTS Information Package**

School of Veterinary Medicine Hannover (TiHo)

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## **A. General introduction**

### **A 1. The ECTS system**

#### **a. The purpose of the ECTS system**

The European Union promotes study abroad as a means of improving the quality of academic cooperation to bring benefits to students and institutions of higher education.

Students envisaging study abroad will be looking for:

- study programmes which are relevant to their final degree,
- full academic recognition which ensures that they will not lose time in completing their degree by studying abroad.

To help students make the most of their study abroad, the European Commission has developed the European Credit Transfer System, which provides a way of measuring and comparing learning achievements and transferring them from one institution to another.

ECTS helps institutions of higher education enhance their cooperation with other institutions by:

- improving access to information on foreign curricula and
- providing common procedures for academic recognition.

What does ECTS offer to the students?

- ECTS guarantees full academic recognition of studies abroad.
- ECTS provides access to regular courses alongside local students, with the benefit of full participation in the academic life of the host institution. This characteristic of ECTS distinguishes it from many other student mobility programmes.
- ECTS permits further studies abroad. A student may prefer not to go back to the home institution after the study period abroad, but rather to stay at the host institution, possibly to earn a degree or to move to a third institution. The institutions themselves decide whether or not this is acceptable and what conditions the student must fulfill in order to earn a diploma or transfer registration.

What does ECTS offer to institutions of higher education?

- ECTS creates curriculum transparency by providing detailed information on the curricula and their relevance towards a degree.
- ECTS helps teaching staff make decisions on academic recognition thanks to prior agreement on the content of study programmes abroad between students and their home and host institutions.
- The use of ECTS can also be a catalyst for reflection on course curriculum structures, student workload, and learning outcomes.
- With ECTS, institutions of higher education preserve their autonomy and responsibility for all decisions concerning students' achievements/performance without amending existing course structures and assessment methods: all courses and assessments are those which are normally taken by regular students at the host institution.

## b. ECTS Credits

ECTS credits are a value allocated to course units to describe the student's workload required to complete them. They reflect the quantity of work each course requires in relation to the total quantity of work required to complete a full year of academic study at the institution, i.e. lectures, practical work, seminars, independent study– in the library or at home –, and examinations or other assessment activities. ECTS credits express a relative value. In ECTS, 60 credits represent the workload of a year of study; normally 30 credits are given for a semester and 20 credits for a trimester. Credits are awarded only when the course has been completed and all requirements including examinations have been successfully fulfilled.

## c. ECTS Grading Scale

Examination and assessment results are usually expressed in grades. There are many different grading systems in Europe. The ECTS grading scale was developed to help institutions translate the grades awarded by host institutions to ECTS students. This provides additional information on the host institution's grade, but does not replace the grade of the home institution. Institutions of higher education make their own decisions on how to apply the ECTS grading scale to their own system.

## **A 2. Conditions to be met by the student**

Students selected by each institution to participate in ECTS may be awarded a student mobility grant if they fulfill the general conditions of eligibility for the ERASMUS grant. These are:

- Students must be nationals of the European Union, Iceland, Liechtenstein or Norway (however, the Commission is not committed to providing support in the case of students moving between Iceland, Liechtenstein and Norway), or nationals of other countries provided that they are permanent residents in the country of the sending university which submits the application, or persons registered as stateless or holding refugee status in the country of the sending university which submits the application.
- Students shall not be required to pay tuition fees at the host institutions; the student may, however, be required to continue to pay his/her normal tuition fees to the home institution during the study period abroad.
- The national grant or loan to which a student may be entitled for study at his/her institution may not be discontinued, interrupted or reduced while that student is studying in another Member State and is receiving an ERASMUS grant.
- A study period abroad should not last less than three months or more than twelve months; students in the first year of their studies are not eligible to receive ERASMUS grants.

### **A 3. List of participating institutions**

Almost all Veterinary universities with bilateral agreements participate to ECTS system.

## **B. About Hannover and the School of Veterinary Medicine**

### **B 1. Hannover and its environs**

In 1946 Hannover became the capital of Lower Saxony. Today, Hannover is a modern city and the location of many firms, industries, exhibitions and fairs. It is also a shopping centre with an extensive pedestrian district and many restaurants in the restored old part of the city. Hannover was nicknamed the "Green Belt Capital" because of its many woodlands and parks including the Eilenriede Forest, a city park of 650 hectares, and the famous Grand Gardens of Herrenhausen, an example of baroque horticultural skills, and the site of a summer arts festival. The city's ancient cultural tradition is kept alive by its academies, colleges, theatres, museums and art galleries. The countryside around Hannover offers many possibilities for interesting excursions – to the Harz mountains, the Weser highlands, the Lüneburg Heath, the Steinhuder lake with its eel fishery or to nearby historic towns like Celle, Hameln, Hildesheim, Goslar, Braunschweig and Lüneburg.

Further information can be obtained directly from:

Tourist Information Centre  
Ernst- August-Platz 2  
30159 Hannover  
Phone +(49) 511/ 301414; from Germany: 0511/ 301414

### **B 2. History of the School of Veterinary Medicine**

The School of Veterinary Medicine Hannover is one of the oldest institutions of higher education in the field of veterinary medicine in Europe. In 1778, the "Royal School of Equine Medicine" was founded by King George III of England. The status of the School is unique in Germany in that it is an independent university of veterinary medicine. In 1899, the School of Veterinary Medicine Hannover was relocated from the Clever Tor to its present location at the Bischofsholer Damm. In 1910 the School of Veterinary Medicine received the right to grant doctorates, in 1913 a rectoral constitution and in 1918 the right to offer postdoctoral qualifications. Since 2002 the School of Veterinary Medicine is headed by a president. An additional campus, the Westfalenhof in Kirchrode, was acquired in 1953, and in the ensuing years several departments moved into new facilities there. For the future it is planned to relocate the entire school at this location.

In January 2003 the School of Veterinary Medicine was transformed into an endowed university within a public foundation.

### **B 3. Location and public transportation facilities**

Today the School of Veterinary Medicine Hannover has two locations in Hannover, the old campus at Bischofsholer Damm 15, next to the tram stop "Braunschweiger Platz" and the new campus known as the Westfalenhof, at Bünteweg 15/17. In 1995 the administration of the School moved into its new quarters in the TiHo Tower building at Bünteweg 2.

The Bischofsholer Damm campus can easily be reached from downtown Hannover ("Kröpke") by tram lines 4 in the direction of Roderbruch, 5 (Kirchrode) or 6 (Messe-Ost). The campus is directly located at the stop "Braunschweiger Platz". The Bünteweg campus can be reached by the tram line 6 (Messe-Ost) at the stop "Bünteweg/Tierärztliche Hochschule".

#### **B 4. Useful addresses**

Tierärztliche Hochschule Hannover  
Studentensekretariat (Student Affairs Office)  
Bünteweg 2  
30559 Hannover  
Phone. +(49) 511/ 953-8087, from Germany: 0511/ 953-8087  
Fax: +(49) 511/953-828087  
e-mail: karl-heinz.windt@tiho-hannover.de  
<http://www.tiho-hannover.de>

Studentenwerk Hannover (Hannover Student Services)  
Jägerstraße 3-5  
30167 Hannover  
Phone. +(49) 511/ 7688-022 from Germany: 0511/ 7688-022  
<http://www.studentenwerk-hannover.de/>

Akademisches Auslandsamt der Tierärztlichen Hochschule Hannover (Office of International Academic Affairs of the School of Veterinary Medicine Hannover)  
Bünteweg 2  
30559 Hannover  
Phone. +(49) 511/ 953-8092 from Germany: 0511/ 953-8092

#### **B 5. Name and address of ERASMUS and ECTS coordinator**

ERASMUS/ECTS coordinators:

Prof. Dr. M. Kietzmann  
Institute for Pharmacology, Toxicology and Pharmacy  
Bünteweg 17  
30559 Hannover  
Phone: +(49) 511/ 953 8730

PD Dr. W. Bäumer  
Institute for Pharmacology, Toxicology and Pharmacy  
Bünteweg 17  
30559 Hannover  
Phone: +(49) 511/ 953 8732

## **B 6. Organisation and structure of the School of Veterinary Medicine**

The School of Veterinary Medicine Hannover consists of five clinics, two centres, 17 institutes, five units, one field station, and an experimental farm:

- Clinic for Cattle
- Clinic for Horses
- Clinic for Pigs, Small Ruminants, Forensic Medicine and Ambulatory Service
- Clinic for Poultry
- Small Animal Clinic
- Department of Anatomy
- Department of Animal Breeding and Genetics
- Institute of Animal Ecology and Cell Biology
- Department of Institute of Animal Hygiene, Animal Welfare and Behaviour of Farm Animals
- Department of Animal Nutrition
- Department of Biometry, Epidemiology and Information Processing
- Bakum Field Station for Epidemiology
- Unit of Fish Pathology and Fish Farming
- Centre of Food Science
  - Institute of Food Quality and Food Safety
  - Section for Food Toxicology and chemical analytics
- Department of Infections Diseases
- Department of Microbiology and Infectious Diseases
- Department of Parasitology
- Department of Pathology
- Department of Pharmacology, Toxicology and Pharmacy
- Department of Physiological Chemistry
- Department of Physiology
- Department of Reproductive Biology
- Unit for Reproductive Medicine of Clinics
- Department of Virology
- Unit History of Veterinary Medicine
- Immunology Unit
- Unit of General Radiology and Medical Physics
- Institute of Wildlife Research
- Institute of Zoology
- Department of Institute for Animal Welfare and Behaviour
- Department of Center for Animal Welfare
- Farm for Teaching and Research in Ruthe

There is also the Field Station for Epidemiology in Bakum near Vechta (close to the Dutch border). The Field Station is located in the centre of an area with a large pig and poultry industry and provides the opportunity for training and research.

Classes in agriculture, animal breeding and animal husbandry are held at the Farm for Teaching and Research in Ruthe, which is located ca. 15 km south of the Bünteweg campus.

The academic affairs of School of Veterinary Medicine Hannover are managed by the full-time President (Dr. G. Greif) and the Vice Presidents for Teaching and for Research,

professors who serve two-year terms part time. The administration is directed by the full-time Vice President for Administration and Finances. Each clinic, institute and centre has its own director.

Additional support facilities:

Library

Computer Centre

Museum of the History of Veterinary Medicine and Domestic Animals

Office for International Academic Affairs

WHO Collaborating Centre Veterinary Public Health

Public Relations Office

School of Veterinary Medical Laboratory Technicians

The School of Veterinary Medicine Hannover employs about 935 staff members (academic and non-academic) and has about 2000 students of veterinary medicine and 500 students of biology. About 250 veterinarians graduate in Hannover each year. There are 244 academic staff members. Most of the 700 members of the technical staff are qualified veterinary medical laboratory technicians" or medical laboratory assistants.

## **B 7. Courses of study**

In collaboration with the University of Hannover and the Hannover Medical School, the School of Veterinary Medicine Hannover offers a course of study leading to a bachelor of science and master of science in biology or biochemistry. Students who intend to study one of these subjects must enrol at the University of Hannover, Faculty of Biology or Faculty of Chemistry.

Additionally, the Graduate School of Biomedical Science was recently established.

## **B 8. Postgraduate studies**

### **a. Doctoral degree (Dr. med. vet.)**

- A postgraduate student who wants to complete a doctoral degree has to carry out independent research work and to become familiarised with other research in this field. The requirements for a doctor of veterinary medicine (Dr. med. vet.) include the writing of a thesis. In total the doctoral degree requires an average of about 2.5 years of work.

#### b. PhD degree

- A postgraduate course of study leading to the PhD degree has been offered by the School of Veterinary Medicine Hannover since 1999 (the first in Germany). This course requires three years of study and coursework and involves project-oriented training in the field of research which should impart the ability to conduct independent scientific work and ultimately lead to the possibility of employment in research or related fields. The PhD course is intended in particular to encourage the new generation of young, highly-qualified scientists. International PhD-program "Systems Neuroscience" of the Centre for Systems Neuroscience Hannover.

The Centre for Systems Neuroscience Hannover (ZSN) is a multidisciplinary research centre comprising working groups of the Hannover Medical School (MHH), the University of Veterinary Medicine Hannover (TiHo), the University of Hannover and the Hannover University of Music and Theatre. The ZSN offers a 3-year, interdisciplinary PhD-program for graduates of human medicine, veterinary medicine, biology, chemistry, biochemistry and affiliated life sciences. By offering a broad spectrum of obligatory and elective classes covering scientific as well as complementary topics, the PhD-program significantly contributes to the training of early stage researchers in systems-related neuroscience.

#### c. Veterinary specialist (Fachtierarzt), Diplomate of European Colleges

- Specialisation is possible in a variety of disciplines, either as a veterinary specialist (Fachtierarzt) or as a Diplomate of European Colleges.

### **B 9. International cooperation**

#### A. The School of Veterinary Medicine Hannover has formal links with the following veterinary faculties worldwide:

- Universidad Austral de Chile, Facultad de Medicina Veterinaria, Valdivia/Chile
- School of Veterinary Science, University of Bristol, Bristol/Großbritannien
- Universidade de Sao Paulo, Faculdade de Medicina Veterinaria, Sao Paulo/Brasilien
- Universidade Federal da Bahia, Escola de Medicina Veterinaria, Salvador/Brasilien
- Veterinärmedizinische Universität, Budapest/Ungarn
- Universität Ankara, Veterinärmedizinische Fakultät, Ankara/Türkei
- École Nationale Vétérinaire de Lyon, Lyon/Frankreich
- Veterinärmedizinische Fakultät der Universität Khartoum/Sudan
- Veterinärmedizinische Fakultät der Landwirtschaftlichen Hochschule Warschau/Polen
- Veterinärmedizinische Fakultät der Universität Córdoba/Spanien
- Tierärztliche Hochschule Helsinki/Finnland
- Cornell University, New York State College of Veterinary Medicine, Ithaca/USA

- University of Illinois, Champaign-Urbana, Illinois/USA
- Michigan State University, East Lansing, Michigan/USA
- Iowa State University in Ames, Iowa/USA
- Universidad Nacional, Heredia/Costa Rica
- Veterinärmedizinische Fakultät der Omsker Agraruniversität, Omsk/Russland
- Thracian University, Stara Zagora/Bulgarien
- La Faculté des Sciences de l'Université d'Antananarivo (FSUA), Madagaskar
- L'Association Nationale pour la Gestion des Aires Protégées (ANGAP), Madagaskar
- Rakuno Gakuen University, Ebetsu/Japan
- Universidad de Guadalajara/Mexiko
- Faculty of Veterinary Sciences, University of Melbourne/Australien
- Northeast Agricultural University, College of Veterinary Medicine, Harbin/China
- Nanjing Agricultural University, Nanjing/China
- Obihiro Universität of Agriculture and Veterinary Medicine, Japan
- Veterinärmedizinische Fakultät der Landwirtschaftlichen Universität Lettland, Jelgava/Lettland
- Faculties of Veterinary Medicine Kasetsart University, Thailand
- Mahanakorn University, Bangkok/Thailand
- Veterinärmedizinische Akademie Litauen, Kaunas, Litauen

SOCRATES/ERASMUS bilateral agreements exist with the following universities:

Belgium:	Gent
Bulgaria:	Stara Zagora
Denmark:	Kopenhagen
Finland:	Helsinki
France:	Lyon
Greece:	Thessaloniki
Italy:	Bologna
	Mailand
	Messina
	Parma
Latvia:	Jelgava
Lithuania:	Kaunas
Norway:	Oslo
Netherlands:	Utrecht
Austria:	Vienna
Poland:	Warsaw

Portugal: Lisboa  
Sweden: Uppsala  
Spain: Cordoba  
Gran Canaria  
Madrid  
Murcia  
Zaragoza  
Czech Rep.: Brno  
Turkey: Ankara

Additionally, there is a joint exchange program with Bern und Zurich (Switzerland).

#### International reference centres

In 1974 the World Health Organisation (WHO) established a Collaborating Centre for Research and Training in Veterinary Public Health (VPH) at the School of Veterinary Medicine Hannover. The main purpose of this Centre is to conduct research on the interactions of humans and animals with special emphasis on human health.

#### **B 10. Academic calendar**

The academic year consists of two semesters. The winter semester starts on October 1st and the summer semester on April 1st, but classes usually start later.

The calendar for the academic can be seen at [www.tiho-hannover.de](http://www.tiho-hannover.de).

Examinations are usually held during the period when no classes are scheduled.

#### **B 11. Accommodation and fees**

In Germany student accommodations are not provided by the universities but by Hannover Student Services (Studentenwerk). This organisation offers very limited residential facilities. The cost of renting a single room in a hall of residence is about € 180 per month.

Address:

Studentenwerk Hannover  
Jägerstraße 3-5  
30167 Hannover  
Phone: +(49) 511- 7688048, in Germany: 0511- 7688048

It is relatively difficult to find reasonably-priced accommodation in the private sector in Hannover. Students who have to find accommodation on their own may have to pay up to 300 € per month for a single room. The Office of International Academic Affairs also acts as an agent for student rooms.

Address:

Akademisches Auslandsamt  
Stiftung Tierärztliche Hochschule Hannover  
Bünteweg 2  
30559 Hannover  
Phone: +(49) 511- 953 8092, in Germany: 0511- 953 8092

The cost of living is relatively high in Germany. The estimated costs per month are about € 600 for housing, books, materials, insurance, and other expenses.

## **B 12. Health and Insurance**

All students have to arrange for general medical insurance. Students can be exempted from the compulsory national health insurance if they have private medical insurance coverage in their home country or if they are included in their parents' medical insurance. This insurance also has to cover the costs in cases of illness which occur in Germany. Students from EC Member States can be exempted from having to join the local branch of the national health insurance plan (Allgemeine Ortskrankenkasse, AOK) in Hannover.

Addresses of local health insurance companies:

Allgemeine Ortskrankenkasse Hannover  
Hans-Böckler-Allee 30  
30173 Hannover  
Phone: 0511 - 2850

Techniker-Krankenkasse  
Wöhlerstr. 42  
30163 Hannover  
Phone: 0511 – 39938-0

Barmer Ersatzkasse  
Vahrenwalder Str. 133  
Phone: 0511 - 30250

## **B 13. College fees**

There are currently no plans to charge tuition. However, there is a mandatory fee of about € 140 per semester charged as a contribution to social welfare services and administration costs, including a semester pass for the free use of public transportation in and around Hannover.

## **B 14. German language**

It is expected that ECTS students coming to Hannover have a good knowledge of the German language. All courses are given in German. There is a Centre for Applied Linguistics and Special Languages set up in 1989 at the University of Hannover offering special language courses in English, Spanish, Dutch, Swedish, Italian, Greek, Russian and Japanese. See the Internet site for course offerings and registration.

Address:

Zentrale Wissenschaftliche Einrichtung Fachsprachzentrum (Centre for Applied Linguistics and Special Languages)

Welfengarten 1

30167 Hannover

Phone: 0511- 762 4914

[www.fsz.uni-hannover.de](http://www.fsz.uni-hannover.de)

Special German-language courses are also offered by the following non-profit institutions:

Volkshochschule Hannover

Theodor Lessing Platz 1

30159 Hannover

Phone: 0511- 16844783

Bildungsverein Soziales Lernen und Kommunikation e. V.

Wedekindstr. 14

30169 Hannover

Phone: 0511- 344144

Bildungswerk der DAG

Adolfstr. 8

30169 Hannover

Phone: 0511- 121860

DGB-Bildungswerk

Schulenburg Landstraße 261

30419 Hannover

Phone: 0511- 883004

ISK International

Lützowstr. 7

30159 Hannover

Phone: 0511-12356360

## **B 15. Social Activities**

The Office of International Academic Affairs (Akademisches Auslandsamt): manages the TiHo's international relations and provides assistance to foreign students. It also organises social events and excursions.

The University of Hannover also organises many social and cultural activities including a sports programme offered each semester for all teachers, students and staff. A specific and detailed programme including about 45 different kinds of sports is published at the beginning of each semester.

Address:

Zentrum für Hochschulsport  
Am Moritzwinkel 6  
30167 Hannover  
Phone: 0511- 7622192  
<http://www.hochschulsport-hannover.de/index.asp>

The University Chorus is open to all students.  
<http://www.chor.uni-hannover.de/home.html>

The Collegium Musicum invites students to participate.  
<http://www.stud.uni-hannover.de/gruppen/collegium/>

A film programme is offered during the academic year.

The ASTA offers a great variety of social and cultural activities and publicises activities of other cultural groups in Hannover.  
An "alternative" guide to these activities is published each semester.

There is also a special foreign student counselling office at the TiHo  
Address:

Allgemeiner Studentenausschuss (ASTA, Student Committee)  
Auslandsreferat (International Unit)  
Bischofsholer Damm 15  
30173 Hannover  
Phone: 0511 - 856 7704  
Fax: 0511 – 856 7705

Further addresses of interest:

Evangelische StudentInnengemeinde (ESG, Protestant student parish)  
Kreuzkirchhof 1-3  
30159 Hannover  
Phone: 0511-35374924

Katholische StudentInnengemeinde (KSG, Catholic student parish)  
Leibniiufer 17 - 17 A  
30169 Hannover  
Phone: 0511-326179

Cultural Centres and international organisations in Hannover:

Die Deutsch-Französische Gesellschaft Hannover e.V  
<http://www.dfg-hannover.de/>

Volkshochschule Hannover  
Theodor-Lessing- Platz 1  
30159 Hannover  
Phone: 0511-16844781

## **B 16. Embassies of EEC Member States in Hannover and environs**

Belgium	Hans-Böckler-Allee 20, 30173 Hannover	Tel: 8 57 25 54
Denmark	Georgsplatz 1, 30159 Hannover	Tel: 3 61 22 20
Finland	Mühlenfeld 18, 30853 Langenhagen	Tel: 72 23 32
France	Kabelkamp 20, 30179 Hannover	Tel: 6 76 32 71
Greece	Gellertstr. 43, 30175 Hannover	Tel: 28 19 11 0
Great Britain	Karl-Wiechert-Allee 50, 30175 Hannover	Tel: 3 88 38 08
Iceland	Längenfeldstr. 8, 30952 Ronnenberg	Tel: 46 09 0
Italy	Freundallee 27, 30173 Hannover	Tel: 2 83 79 0
Luxembourg	Rathenaustr. 7, 30159 Hannover	Tel: 64 91 75
Netherlands	Schiffgraben 36, 30175 Hannover	Tel: 8505380
Norway	Herrenhäuserstr. 83, 30419 Hannover	Tel: 7907212
Austria	Constantinstr. 40, 30177 Hannover	Tel: 9 07 48 70
Sweden	Tresckowstr. 5, 30457 Hannover	Tel: 4392561
Spain	Bödekerstr. 22, 30161 Hannover	Tel: 31 10 85
Turkey	An der Christuskirche 3, 30167 Hannover	Tel: 7 68 65 0

## **C Application and the veterinary surgeon's training**

### **C 1. Structure of the veterinary surgeon's training according to the TAppV (2006)**

Training of veterinary surgeons follows the guidelines of the national certification regulations for veterinary surgeons (TAppV) and consists of

1. a period of study of at least four and a half years at a faculty of veterinary medicine or in an institute for veterinary medicine at a university or at a college for veterinary surgeons;
2. an additional period of practical training (article 1 paragraph. 2 nos. 1+2) of
  - a. 70 hours during at least two weeks about farming, livestock and animal husbandry
  - b. 150 hours during at least four weeks at a veterinary surgeon's practice or in a veterinary clinic
  - c. 75 hours during at least three weeks in food hygiene monitoring and examination.
  - d. 100 hours during at least three weeks in a food and meat inspection authority
  - e. 75 hours during at least two weeks in a veterinary office
  - f. 700 hours during at least four months at a veterinary surgeon's practice or in a veterinary clinic or practical training of one's choice according to article 57 of the TAppV.
3. the following examinations:
  - a. the veterinary surgeon's pre-clinical examinations, which comprise a theoretical-scientific part (Vorphysikum) and an anatomical-physiological part (Physikum),
  - b. the veterinary surgeon's examinations

The course of study begins in the winter semester with the pre-clinical section (the first two years of study), followed by the clinical section (the remaining two and a half years). The

scientific part of the pre-clinical examinations can be taken after the first year of study. The anatomical-physiological part can be completed after the first year of study. In the last years the veterinary surgeon's examinations can be completed. Whereas the following examinations can not be completed before the end of the 8<sup>th</sup> semester: Pathology, Food hygiene, Meat hygiene, Milk hygiene, Internal medicine, Surgery and Anaesthesiology, Reproductive medicine, and Veterinary and professional. It is also permissible to perform the practical training during the course of study, i.e. when there are no regular classes.

The certification as veterinary surgeon is issued by the appropriate authorities of the country on application after the applicant has successfully passed the veterinary surgeon's examinations.

### Schematic structure of the course of study

#### Preclinical section

Year 1

1st and 2nd semesters

Theoretic-scientific part of the pre-clinical examination  
(Vorphysikum)

**60 credits**

Year 2

3rd and 4th semesters

Anatomical-physiological part of the pre-clinical  
examination

**60 credits**

**120 credits for the pre-clinical section**

#### Clinical section

Year 3-5

veterinary surgeon's examinations

**60 credits**

**180 credits for the clinical section**

**Total: 300 credits**

### C 2. Deadlines for ECTS applicants

The forms for application and the specific course of study are to be found as an appendix to this brochure. The forms with all documents required have to be submitted to the host institution no later than **June 15<sup>th</sup>** for the winter semester and **November 15<sup>th</sup>** for the summer semester.

### **C 3. Admission to ECTS study**

The host institution will check the application and the proposed course of study, and the ECTS coordinator will confirm the programme – after making any necessary changes – and send the confirmed forms back to the submitting institution.

### **C 4. Admission to final examinations**

Students will usually be admitted to a specific part of the pre-clinical or clinical examinations only after enrolment for the complete package required for that part of the examination. ECTS students, however, can also take examinations in specific fields only as confirmed in their study programme if they have already completed the courses required for these subjects.

The head of the local examination board will decide on admission to the examinations. Admission will be permitted only if the student has furnished the required certificates (cf. C 6.).

### **C 5. Grading scale**

The grading scale for the veterinary surgeon's training according to the TAppV consists of five grades defined as follows:

VERY GOOD (1)	Excellent performance
GOOD (2)	Performance considerably above the average standard
SATISFACTORY (3)	Standard performance in every respect
SUFFICIENT (4)	Performance that meets the average criteria but with some shortcomings
FAIL (5)	Performance that does not meet the minimum criteria due to severe shortcomings

ECTS students must be graded using the ECTS grading scale which has seven grades with the following definitions of performance (two grades are considered as FAIL):

A (corresp. 1) EXCELLENT	Outstanding performance with only minor errors
B (corresp. 2) VERY GOOD	Above- average performancebut with some errors
C (corresp. 2-3) GOOD	Generally sound work with a number of notable errors
D (corresp. 3) SATISFACTORY	Fair work but with significant shortcomings
E (corresp. 4) SUFFICIENT	Performance that meets the minimum requirements
FX (corresp. 5) FAIL	More work is required before credit can be given
F (corresp. 5) FAIL	Considerable further work is required for credit

## **C 6 . Types of teaching units and certificates**

Among the compulsory teaching units are lectures, seminars and practical courses. Exercises and excursions are usually not compulsory. Participation in lectures is confirmed by computer print-out from the Office of Student Affairs, participation in seminars is confirmed by a certificate, and completion of practical training is confirmed by a special certification issued according to the TAppV requirements.

## **C 7. List of special terms and abbreviations used in German establishments of veterinary education**

Akademisches Auslandsamt	Office of International Academic Affairs
AStA (Allgemeiner Studentenausschuss)	Student Committee
belegen (eine Lehrveranstaltung)	To enrol (in a class)
Bescheinigung / Schein	Certificate
sich exmatrikulieren	To withdraw from registration
Immatrikulation	Matriculation
sich immatrikulieren	To register as a student
Praktikum	Practical training
"Quote" (klinische Übungen)	Required clinical practice ("quota")
Schlachthofpraktikum	Practical training in a slaughterhouse
Studentensekretariat	Office of Student Affairs
TAppV (Verordnung zur Approbation von Tierärztinnen und Tierärzten)	National veterinary curriculum (certification regulation for veterinary surgeons)
Übung	Seminar
Vorlesung	Lecture
Wahlpraktikum	Practical training (in a clinic or a private practice of your choice)

## **D Scientific institutions and teaching programmes at the TiHo**

### **D 1. Institutes, clinics and their directors**

Institute for Anatomy

Phone: (0511) 856 - 7214

Fax: 856 - 7683

Director: Univ.-**Prof. Dr., Christiane** Pfarrer Tel.: 953 7211

Institute for Pathology

Phone: (0511) 953 - 8621

Fax: 953-8675

Director: Univ.-Prof. Dr. med. vet.. Wolfgang Baumgärtner, Ph.D. phone: 953 8620

Immunology Unit

Phone: (0511) 856 - 7241

Fax: 856 - 827241

Head: Univ.-Prof. Dr. med. vet. Wolfgang Leibold, phone: 856 - 7577

Institute for Physiology

Phone: (0511) 856 - 7272

Fax: 856 - 7687

Director: Univ.-Prof. Dr. med.vet. Gerhard Breves, phone: (0511) 856 - 7271

Institute for Physiological Chemistry

Phone: (0511) 953 - 8781

Fax: 953 - 8585

Director: Univ.-Prof. Dr. phil. nat. Hassan Y. Naim, phone: 953 - 8780

Institute for Microbiology and Infectious Diseases

Phone: (0511) 856 - 7536

Fax: 856 - 7697

Director: Univ.-Prof. Dr. med. vet. Peter Valentin-Weigand, Tel: 956 – 7362

Institute for Animal Ecology and Cell Biology

Phone: (0511) 953 - 8882

Fax: 953 - 8584

Director: Univ.-Prof. Dr. rer. nat. Bernd Schierwater, phone: 953 - 8880

SOKRATES-Coordinator:

Prof. Dr. M. Kietzmann, phone 953 -.8730

PD Dr. Wolfgang Bäumer, phone: 953 8732

Office: Frau Ledwoch, phone: 953 - 8092

Institute for Animal Breeding and Genetics

Phone: (0511) 953 - 8876

Fax: 953 - 8582

Director: Univ.-Prof. Dr. med. vet. Ottmar Distl, phone: 953 - 8875

Institute for Parasitology

Phone: (0511) 953 - 8793

Fax: 953 - 8870

Director: Univ.-Prof. Dr. med. vet. Thomas Schnieder, phone: 953 – 8711

Institute for Zoology

Phone: (0511) 953 - 8741

Fax: 953 - 8586

Direktorin: Univ.-Prof. Dr. rer. nat. habil. Elke Zimmermann, phone: (0511) 953- 8740

Centre for Food Sciences

Institute for Foodquality and -safety

Phone: (0511) 856 - 7257

Fax: 856 – 7694

Director: Univ.-Prof. Dr. G. Klein, phone: 856 – 7256

Institute for Food Toxicology and Analytical Chemistry

Department of Analytical Chemistry

Phone: (0511) 856 - 7546

Fax: 856 - 7690

Director: Univ.-Prof. Dr. rer. nat. Hans-Otto Hoppen, phone: 856 - 7287

Department of Food Toxicology and Replacement/Complementary Methods  
to Animal Testing

Phone: (0511) 856 - 7546

FAX: 856 - 7409

Director: Univ.-Prof. Dr. Pablo Steinberg

Institute for Pharmacology, Toxicology and Pharmacy

Phone: (0511) 953 - 8721

Fax: 953 - 8581

Director: Univ.-Prof. Dr. med. vet. Wolfgang Löscher, phone: 953 - 8720

Institute for Virology

Phone: (0511) 953 - 8841

Fax: 953 - 8898

Director: Univ.-Prof. Dr. med. vet. Volker Moennig, phone: 953 - 8840

Institute for Animal Nutrition

Phone: (0511) 856 - 7508

Fax: 856 - 7698

Director: Univ.-Prof. Dr. med. vet. Josef Kamphues, phone: 856 - 7508

Institute for Biometrics and Epidemiology

Phone: (0511) 953 - 7951

Fax: 953 - 7974

Director: Univ.-Prof. Dr. Lothar Kreienbrock, phone: 953 - 7950

Institute for Animal Hygiene, Welfare and Behaviour of Farm Animals

Phone: (0511) 953 - 8832

Fax: 953 - 8588

Director: Univ.-Prof. Dr. med. vet. Jörg Hartung, phone: 953 – 8831

Institute for Animal Welfare and Behaviour (Pets, Laboratory Animals and Horses)

Phone: (0511) - 953-8141

Fax: (0511) 953-8056

Director: Univ.-Prof. Dr. med. vet. Hansjoachim Hackbarth, phone: 953 - 8144

Centre for Animal Welfare

Phone: (0511) 953-8142

Head; Dr. rer. nat. Willa Bohnet Tel: 953 - 8142

Unit for Reproductive Medicine of Clinics

Phone: (0511) 953 - 8501

Fax: 953 - 8504

Small animals: Univ.-Prof. Dr.med.vet. Anne-Rose Günzel-Apel

Horse: Prof. Dr. Harald Sieme

Cattle: PD Dr. Christine Wrenzycki

Pig: Prof. Dr. Dagmar Waberski, Dipl. ECAR

Institute for Reproductive Medicine

Phone: (0511) 953 - 7181

Fax: 953 - 7150

Director: Univ.-Prof. Dr. Burkhard Meinecke Phone: 953 – 7150

Clinic for Pigs, Small Ruminants, Forensic Medicine and Ambulatory Service

Phone: (0511) 856 - 7260

Fax: 856 - 7684

Director: Univ.-Prof. Dr. med. vet. Karl-Heinz Waldmann, phone: 856 - 7259

Clinic for Horses

Phone: (0511) 856 - 7233

Fax: 856 - 7688

Director: Univ.-Prof. Dr. med. vet. Karsten Feige, phone: 856 - 7232

Small Animal Clinic

Phone: (0511) 856 - 7253

Fax: 856 - 7686

Director: Univ.-Prof. Dr. med. vet. Ingo Nolte, phone: 856 - 7251

Clinic for Cattle

Phone: (0511) 856 - 7243

Fax: 856 - 7693

Director: Univ.-Prof. Dr. med. vet. Heinrich Bollwein phone: 856 – 7702

Clinic for Poultry

Phone: (0511) 953 - 8778

Fax: 953 - 8580

Director: Univ.-Prof. Dr. med. vet. Ulrich Neumann phone: 953 - 8779

Institute for the History of Veterinary Medicine and Domestic Animals

Fax: 856 - 7676

Head: Univ.-Prof. Dr. med .vet. Johann Schäffer

Unit of General Radiology and Medical Physics

Phone: (0511) 856 - 7506

Head: Univ.-Prof. Dr. rer. nat. Hermann Seifert,, phone: 856 - 7454

Institute for Diseases of Fish and Fish Farming  
Phone: (0511) 953 - 8889  
Fax: 953 - 8587  
Head: Prof. Dr. Dieter Steinhagen Phone: 953 – 8560

Institute for Wildlife Research  
Tel: (0511) 856 – 7568  
Fax: 856 – 7696  
Director: Univ.-Prof. Dr. Dr. habil. Klaus Pohlmeier Tel: 856-7568

Farm for Education and Teaching in Ruthe  
Phone: (05066) 60080  
Fax: (05066) 600410  
31157 Ruthe  
Administrator: Dr. Christian Sürle

Field Station for Epidemiology in Bakum  
Phone: (04446) 9599110  
Fax: (04446) 9599112  
Büscheler Strasse 9,  
49456 Bakum  
Director: Univ.-Prof. Dr. med. vet. Thomas Blaha

## **D 2. Teaching programmes**

This information is available at <http://www.tiho-hannover.de>  
ECTS credits are listed in the annex of the German ECTS information package.

## **E: Checklist for ECTS students**

Before leaving home, after being accepted as an ECTS student

- Request application forms from the Office of International Academic Affairs (Akademisches Auslandsamt der Stiftung Tierärztliche Hochschule Hannover) (also available in this info package)
- inform the local ECTS coordinator about the dates of your external study period and accommodation as planned
- Submit all documents required
- Acquire document E 111 or an equivalent from your domestic health insurance
- Obtain confirmation of acceptance as an ECTS student from the ECTS coordinator of your home institution
- Provide evidence of sufficient financial support (about € 500 per month)

#### After arrival in Hannover

- Get certification by a local insurer to assume health insurance coverage or exemption
- Enrol for study in the Office of Student Affairs
- . Announce your presence to the Office of International Academic Affairs and the local ECTS coordinator

#### Before returning home

- Give notice of withdrawal from the course of study at the School of Veterinary Medicine Hannover Foundation (Office of Student Affairs)
- Check out at the Office of International Academic Affairs and the local ECTS coordinator

\*\*\* June 2008

## 1st year

### 1st semester

<b>title</b>	<b>Codes</b>	<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>anatomy</b>	0040 / 0041	2	3		6
<b>A + B chemistry</b>	0001 / 0002/ 0006	6	2		6
<b>general zoology</b>	0030	2			2
<b>general botany</b>	0020	2			2
<b>agriculture and farming occupational field</b>	0038 0016 / 0018	2 2			2 2
<b>physics</b>	0013/0014	3	2		5
<b>ethology</b>	0218	1			1
<b>animal husbandry</b>	0216	2			2
<b>special zoology</b>	0031	1	2		3
<b>compulsory course of choice</b>		7	7		
<b>sum hrs. p. week</b>					38

### 2nd semester

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>organic chemistry</b>	0501 / 0502/0503	3	2		5
<b>histology I</b>	0542		3		3
<b>biochemistry</b>	0572/0574	3	2		4
<b>physiology</b>	0562/0563	4	3		7
<b>anatomy</b>	0540	1	2		3
<b>ethology</b>	0000	1			1
<b>special botany</b>	0520	3			3
<b>occupational field</b>	0538	1			1
<b>compulsory course of choice</b>		7			7
<b>sum hrs. p. week</b>					34

## 2nd year

### 3rd semester

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>anatomy</b>	0042/0043/ 0046	1	7		6
<b>histology/embryology</b>	0047	2			2
<b>physiology</b>	0063 / 0064	3	3		6
<b>biochemistry</b>	0079 / 0072	3	1		4
<b>animal welfare</b>	0211	2			2
<b>animal breeding and genetics</b>	0180	3			3
<b>compulsory course of choice</b>		8			8
<b>sum hrs. p. week</b>					31

### 4th Semester

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>anatomy</b>	0541		2		2
<b>animal nutrition</b>	0700 / 0702	2	2		4
<b>histology/embryology</b>	0543		3		3
<b>preparatory course</b>	780/0800/20/40/60		8		8
<b>general pathology</b>	0588/89	4			4
<b>biochemistry</b>	0570 / 0571	3	1		4
<b>general infectious disease</b>	0600	3			3
<b>animal breeding</b>	0680 /0681	3			3
<b>animal welfare II</b>	0710	2			2
<b>biomaths</b>	0888	2			2
<b>radiology</b>	0515	1	4		5
<b>compulsory course of choice</b>		7			7
<b>sum hrs. p. week</b>					47

### 3rd year

#### 5th Semester (winter)

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>microbiology</b>	0101/ 0420	2	4		6
<b>laboratory diagnostic</b>	0288		2		2
<b>pharmacology/toxicology</b>	0260	3			3
<b>diseases of reptiles/fishes/bees</b>	0271	1			1
<b>animal epidemics</b>	0102	1			1
<b>repr. med./biotechnology</b>	0380	1			1
<b>internal medicine</b>	0282	2			2
<b>gynaecology and reproduction</b>	0342	1			1
<b>food science</b>	0227	2			2
<b>clinical practicals and demonstrations</b>	0280/0300/ 0320/0340		8		8
<b>clinical endocrinology</b>	0000	1			1
<b>animal hygiene</b>	0210	2			2
<b>radiology</b>	0017	2			2
<b>compulsory course of choice</b>		8			8
<b>sum hrs. p. week</b>					40

#### 6th semester

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>gynaecology and reproduction</b>	0886/0842	1		1	2
<b>pharmacology/toxicology</b>	0760	3			3
<b>pathologic-histological practicals</b>	0581		2		2
<b>immunology</b>	0987			1	1

<b>clinical practicals and demonstrations</b>	649/779/799/819/839/859/879	8		8	<b>6</b>
<b>poultry disease</b>	0651	1			1
<b>virology</b>	0621	3			3
<b>special pathology</b>	0580	3			3
<b>diseases of ruminants</b>	0862	3			3
<b>diseases of horses</b>	0804	3			3
<b>diseases of pet animals</b>	0822	1			1
<b>food science</b>	0721/0722	2			2
<b>diseases of fishes/bees</b>	0776/0777	1			1
<b>parasitology</b>	50742	1			1
<b>milk hygiene</b>		4			4
<b>compulsory course of choice</b>					38
<b>sum hrs. p. week</b>	0886/0842	1		1	2
<b>two weeks course in agriculture and farming in Ruthe</b>					

#### 4th year

#### 7th semester

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>animal nutrition</b>	0203/0204	2	2		4
<b>autopsy</b>	0084/0085		2		2
<b>parasitology</b>	0163		2		2
<b>clinical practicals and demonstrations</b>	150/281/301/321/341/361/382	6			6
<b>poultry disease</b>	0151	1			1
<b>pharmacology/toxicology</b>	0261/0263	2	2		4
<b>special pathology</b>	0081			1	1
<b>reproduction (udder)</b>	0343/46	1	1		2
<b>diseases of cattle</b>	0362	1			1
<b>diseases of horses</b>	0308	1			1
<b>diseases of pet animals</b>	0324	1			1
<b>food science</b>	0220/24/50	2	5		7
<b>compulsory course of choice</b>		4			4
<b>sum hrs. p. week</b>					32

#### 8th semester

<b>title</b>		<i>lecture</i>	<i>practice</i>	<i>seminars etc.</i>	<i>sum</i>
<b>food science</b>	0720/0723/50	1	7		8
<b>pathology</b>	0583		2		2
<b>gynaecology/artificial insemination</b>	0881/0843/0844/0845	2		1	3

<b>clinical practicals</b>	650/653/781/801/821/841/861/883		2	2
<b>herd management</b>	0791	1		1
<b>laboratory animal</b>	0717	1		1
<b>science and diseases</b>				
<b>diseases of cattle</b>	0862	1		1
<b>diseases of pigs</b>	0783	2		2
<b>diseases of small</b>	0784	1		1
<b>ruminants</b>				
<b>diseases of horses</b>	0805	2		2
<b>diseases of pet animals</b>	0823	2		2
<b>veterinary and</b>	0786/0603	2		2
<b>professional legislation</b>				
<b>milk analysis</b>	0745		2	2
<b>compulsory course of</b>		8		8
<b>choice</b>				
<b>sum hrs. p. week</b>				37

**5th year**

**9th/10th semester**

paer of "practical year"

incl.  
surgery  
techniques