

## Courses in the winter semester 2024/25

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### Compulsory elective courses for veterinarians

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#### 1000 General learning



*Hoischen, Bartkowiak, Richter, Schaper*

**S** for the **1st/3rd/5th** semester **12 hours** max. **300 participants** Subject area: **Other**

*University learning requires a high degree of self-organisation, the exam topics are often clear, but it is easy to lose track of the amount of material to be learned. Effective learning strategies and good time management are essential for success in your studies. The "Learning to learn" elective is designed to provide participants with some tools to make their own exam preparation easier.*

*This compulsory elective focusses in particular on*

- Procrastination
- Basics of learning
- Learning, time and self-management
- Exercises on learning methods
- Physical and mental relaxation and balance, exam stress and mental health

**Block event** 08.11.2024 to 17.01.2025

Introductory event on MS teams on 8 November 2024

Closing event on MS teams on 17 January 2025

The MS Teams events take place at three different times, and all participants are free to choose which of the three dates they wish to attend.

The rest of the course content is processed asynchronously and flexibly in Moodle.

The total number of hours is awarded if everything is completed and all events are attended, otherwise it is reduced accordingly.

Start: 08.11.2024

**The link and times will be communicated by e-mail.**

*Microsoft Teams*

*TiHoMoodle*

Registration: **online**

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#### 1001 General e-learning at the TiHo



*Hoischen, Weber, Schaper*

**S** for the **1st/3rd** semester **2 hours** **100%** max. **40 participants** Subject area: **Preclinical, other**

*As part of this compulsory elective, you will be introduced to the e-learning counselling services offered by the University of Veterinary Medicine Hannover Foundation. We also present external offers. Selected electronic media for learning can be tested and tried out in the form of a digital scavenger hunt.*

**Block event** Fri 14-16 h

One-off event on Friday, 25 October 2024 at 14 c.t. (14.15-15.45).

To take part in the online event, you will need a PC/laptop, a headset (and a webcam), paper and pen.

The link to the MS Teams room will be communicated in advance. Start: 25.10.2024

**Minimum number of participants: 3 persons**

*Microsoft Teams, online*

Registration: **online**

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#### 1002 General (E-)examinations at the TiHo



**Various examination and question formats used at the TiHo are presented and tips for examination situations are provided.**

*Schaper*

**S** for the **1st/3rd/5th/7th** semester **2 hours** **100%** max. **60 participants**

Speciality: **Preclinical, Other**

- Information about available online material on the subject of "Testing" at the TiHo
- Practising question formats using examples
- Tips for exam situations

**Block event** Fri 16-18 h



One-off event on Friday, 13 December 2023 from 4.15 - 5.45 pm  
To take part in the online event, you will need a PC/laptop, a headset and, if you wish, a webcam, as well as pen and paper.  
The link to the event room will be announced in advance via Outlook. Start:  
13.12.2024  
**Minimum number of participants: 3 persons**  
Microsoft Teams, online  
Registration: **online**

1003

**TGundamentals of business practice management - Part 1 (WiSe Gr.1)**  
**Business studies for veterinarians**



Deiner (course leader), Kleinsorgen (organisation)

**S** for the **5th/7th** semester **20 hours** **100%** max. **25 participants** Subject area: **Other**

*Part 1 of the course deals, among other things, with turnover (net vs. gross, curative vs. commercial), investments and depreciation, return on sales, liquidity (and how to secure it), variable/fixed costs, contribution margin, opportunity costs, profit, earnings as a practice owner, BWA: function and typical structure, typical practice income/costs, use of money calculation, key figure analysis + practice optimisation, same profit with fewer clients? Calculation of variable unit costs, raising fees sensibly, price psychology, practice costs per minute, tax classes and ancillary wage costs, employer gross, amortisation calculation for an employed doctor with different salaries.*

*Notes: The course is an interactive online course (via Cisco Webex) and lasts one weekend. There will be two weekend sessions with identical content. During the interactive phases it is expected that the webcam is switched on in order to be able to actively participate.*

*For further information on the course, please contact Dr Carolin Deiner (carolin.deiner@fu-berlin.de).*

**Block event** Saturday, 09.11.2024 - Sunday, 10.11.2024 10:00 - 17:10 each day  
Start: 09.11.2024

**Participation in the web meetings and interactive collaboration are prerequisites for crediting.**

**Headphones/speakers and a webcam are recommended for the web meeting. During the interactive phases, the webcam is expected to be switched on so that participants can actively participate.**

*The live web meetings take place via the WebEx video conferencing system. A corresponding invitation will be sent by the course organiser before the course begins.*

Registration: **online**

1004

**TGundamentals of business practice management - Part 1 (WiSe Gr.2)**  
**Business studies for veterinarians**



Deiner (course leader), Kleinsorgen (organisation)

**S** for the **5th/7th** semester **20 hours** **100%** max. **25 participants** Subject area: **Other**

*Part 1 of the course deals, among other things, with turnover (net vs. gross, curative vs. commercial), investments and depreciation, return on sales, liquidity (and how to secure it), variable/fixed costs, contribution margin, opportunity costs, profit, earnings as a practice owner, BWA: function and typical structure, typical practice income/costs, use of money calculation, key figure analysis + practice optimisation, same profit with fewer clients? Calculation of variable unit costs, raising fees sensibly, price psychology, practice costs per minute, tax classes and ancillary wage costs, employer gross, amortisation calculation for an employed doctor with different salaries.*

*Notes: The course is an interactive online course (via Cisco Webex) and lasts one weekend. There will be two weekend sessions with identical content. During the interactive phases it is expected that the webcam is switched on in order to be able to actively participate.*

*For further information on the course, please contact Dr Carolin Deiner (carolin.deiner@fu-berlin.de).*

**Block event** Saturday, 25.01.2025 - Sunday, 26.01.2025, each 10:00-17:10 Start: 25.01.2025

**Participation in the web meetings and interactive collaboration are prerequisites for crediting.**

**Headphones/speakers and a webcam are recommended for the web meeting. During the interactive phases, the webcam is expected to be switched on so that participants can actively participate.**

*The live web meetings take place via the WebEx video conferencing system. A corresponding invitation will be sent by the course organiser before the course begins.*

Registration: **online**

1005

**PhBasics of communication and dialogue**



Wissing, Kleinsorgen

**S** for the **1st/3rd** semester **4 hours** **100%** max. **40 participants** Subject area: **Other**

*Communication is practised as a matter of course in everyday life for the exchange of information and is only questioned in the event of misunderstandings due to different perceptions (on the part of the sender or recipient). The communication process is very multifaceted and takes place on both a verbal and non-verbal level.*

*This compulsory elective deals with different levels of communication and introduces established communication and feedback models. Within the framework of exercises, various factors influencing communication are worked out independently using text, videos and exercises, and the application of specific communication models is demonstrated.*



Communication techniques and dialogue strategies are practised in interactive tasks.

This compulsory elective course takes place as an online event. There are two theoretical online units, which will be activated for you one after the other.

Please note that active participation and completion of the tasks set, including uploading your results, are mandatory for you to receive credit for WP hours.

**Block course** Duration of the compulsory elective course: 04.11.-17.11.2024

Start: 04.11.2024

**The processing of the online content in Moodle takes place over a period of 2 weeks.**

**Two online units of 2 hours each are to be completed in the above-mentioned period.**

Online in TiHoMoodle

Registration: **online**

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1006 T

### Veterinary communication



Wissing, Kleinsorgen

**S** for the 5th/7th/9th semester **6 hours** **100%** max. **12 participants**

Speciality: **Individual animals, other**

*Well-functioning and comprehensible client communication is one of the basic prerequisites for building a trusting relationship between vet and patient owner and represents one of the essential core competences for vets in everyday practice. However, it is not only dealing with dialogue situations with pet owners that can sometimes be challenging for vets; working in a team is not always without complications either.*

*In preparation for everyday practice, this compulsory elective teaches the basics of taking medical histories with patient owners. Theoretical content on communication within the team and with superiors is also covered.*

*This compulsory elective course takes place as a blended learning event. There are two theoretical online units that are activated one after the other. You will have to complete various tasks as part of these online units.*

*Please note that active participation and completion of the tasks set, including uploading your results, are mandatory for you to receive credit for WP hours.*

*After completing the online units, there will be a simulation appointment in the Clinical Skills Lab in the communication facility with actors as patient owners. Assignment to the simulation dates takes place at the beginning of the compulsory elective, the simulation dates are Wednesday afternoons in December 2024 and January 2025.*

**Block event** Wed 14-16 h

Block course: 18.11.2024- 01.12.2024 Theory unit in Moodle

The simulation dates in the Clinical Skills Lab will take place on 11 December 2024, 15 January 2025 and 22 January 2025 from 2 pm to 4 pm in groups of 4. The allocation of a simulation date per student will be made according to WP allocation.

Start: 18.11.2024

**Please bring a smock.**

**Further information will be forwarded directly to the participants by e-mail.**

Online in Moodle, presence in the Clinical Skills Lab

Clinical Skills Lab

Bischofsholer Damm 15, Building 116

30173 Hanover

Registration: **online**

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1007 T

### Interprofessional team communication for the veterinary practice



Wissing, Kleinsorgen

**S** for the 3rd/5th/7th semester **24 hours** **75%** max. **100 participants**

Speciality: **Individual animals, other**

*Good communication within the veterinary team is a prerequisite for harmonious and efficient collaboration between different professional groups. As part of a pilot project, veterinary students, veterinary assistants, animal carers and other professions from the veterinary practice were trained in a joint course. Some of the content is now offered in an online course for self-study.*

*The compulsory elective takes place as an online learning event. You can use the Moodle platform to complete online units of 2 learning hours each, for which you have one to two weeks each. Some topics will be discussed together in a video conference and there will be an opportunity for exchange between the professions at the TiHo.*

**Block course** The online units are available in TiHoMoodle for one to two weeks at a time. The date for the online seminar is determined at the beginning of the course by means of an appointment request (Foodle).  
Start: 09.10.2024

TiHoMoodle: Module units of 2h each Online MS

Teams: Video conference

Registration: **online**



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## 1008 General economics for veterinary students

### An event organised by the bpt



Färber, Kreling, Moog, Ripper, Becker

**S** for the **5th/7th** semester **28 hours** **75%** max. **60 participants** Subject area: **Other**

*Do you dream of not only practising great veterinary medicine after your studies, but also of going through the roof financially? Whether you want to get started in a practice, in the public sector or in industry - economic know-how is the turbo for your career for veterinarians. It is the "second side of the coin" that helps you to be happy and successful both as a self-employed person and as an employee.*

*This compulsory elective subject, offered by the Federal Association of Practising Veterinarians (bpt) in cooperation with the TiHo, teaches the most important economic relationships in a practical and concise manner and offers valuable tips for everyday practice.*

*Topics and questions of the compulsory elective subject:*

- *Veterinary medicine news: market developments and trends in practice*
- *Cost accounting I: What do I want/can I earn as a vet?*
- *Efficient time management: How do I organise my day effectively?*
- *Cost accounting II: What is my service worth?*
- *Marketing: How do I successfully market my services?*
- *Business communication: Which customer is right for me?*
- *Labour law for veterinarians: What rights and obligations do I have in the workplace?*
- *Payment transactions and receivables management: How do I secure my income?*
- *Personnel management and quality management: How do I successfully manage a veterinary practice?*
- *Investment planning: Is it worth investing?*
- *Future and career planning: Graduating soon - what options do I have as a vet? Better employed or self-employed?*
- *Digitalisation and telemedicine: How are digital technologies and telemedicine changing veterinary practice and what economic opportunities do they offer?*
- *Artificial intelligence: How does AI influence veterinary medicine and what economic potential does it offer?*

*Secure your place on this forward-looking course and lay the foundations for a successful and fulfilling career in veterinary medicine!*

**weekly event** Wed 16-18 h Start: 09.10.2024

**Economic knowledge is evaluated by means of voluntary entrance and final tests.**

Bayer lecture theatre on Bünteweg

Registration: **online**

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## 1009 General tutor training



### A didactics training course for student assistants

Bartkowiak, Schaper

**S** for the **3rd/5th/7th/9th** semester **10 hours** max. **100 participants** Subject area: **Other**

*This compulsory elective programme is aimed at students who work in teaching.*

*The following contents are to be taught:*

- *Learning didactic methods*
- *Plan and organise courses in various formats*
- *Plan, design, structure, organise and present teaching content*
- *Using tools for digital teaching*
- *Get to know the basics of communication*
- *Use and create open teaching and learning materials*
- *Comply with the legal framework (data protection and copyrights)*
- *Giving and receiving feedback*

**Block course** Fri 14-15 h Start:  
18.10.2024

**Access data, meeting link and further information will be communicated in advance by e-mail.**

**This is an asynchronous self-study course in Moodle with 2 synchronous online sessions of 1 hour each (introduction on 18 October 2024 and completion & evaluation). The completion date, probably at the end of January 2025, will be communicated.**

**The number of hours that are credited depends on participation in the modules and the online meeting dates.**

Online in Moodle and MS Teams

Registration: **online**



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1010 General introduction to literature research



**Incl. practical exercises**

*Leonhard-Marek, Osigus*

**S/Ü** for the **3rd/5th/7th** semester **2 hours** max. **20 participants** Subject area: **Other**

*Literature search, search strategies, relevant databases, discovery service*

**fortnightly event** Dates by arrangement (by e-mail)

*MS Teams*

Registration: **E-Mail** ([biblio@tiho-hannover.de](mailto:biblio@tiho-hannover.de))

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1011 General reference management with EndNote 21



**Introduction with exercises**

*Osigus, Leonhard-Marek*

**S/Ü** for the **3rd/5th/7th** semester **2 hours** max. **20 participants** Subject area: **Other**

*Setting up an EndNote library, entering new sources, importing full texts, data structuring, working with MS Word (incl. citation styles)*

**Block event** Wed 14:15-16:15 16.10.2024

*MS Teams*

Registration: **online**

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1012 General literature research - what, where and how?



**Introduction and practical exercises**

*Leonhard-Marek, Osigus*

**S/Ü** for the **3rd/5th/7th** semester **2 hours** max. **20 participants** Subject area: **Other**

*Literature search, search strategies, relevant databases, (scientific) search engines, discovery service*

**Block event** Wed 14:15-16:15 09.10.2024

*MS Teams*

Registration: **online**

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1013 General introduction to reference management: EndNote 21



**Introduction and practical exercises**

*Osigus, Leonhard-Marek*

**S/Ü** for the **3rd/5th/7th** semester **2 hours** max. **20 participants** Subject area: **Other**

*Setting up an EndNote library, entering new sources, importing full texts, data structuring, working with MS Word (incl. citation styles)*

**fortnightly event** Dates by arrangement (by e-mail)

*MS Teams*

Registration: **E-Mail** ([biblio@tiho-hannover.de](mailto:biblio@tiho-hannover.de))

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1014 General case-based training in literature research and management



**Short CASUS cases on literature research and literature management**

*Leonhard-Marek, Osigus*

**S** for the **3rd/5th/7th** semester **5 hours** max. **500 participants** Subject area: **Other**

*The aim of CASUS-WP is the interactive, case-based development of content from literature research and literature management. You will learn about search strategies, databases, search engines and how to manage your data in EndNote.*

**Block event** start 07.10.2024, end 24.01.2025

*Online via CASUS*

Registration: **online**

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1015 General research data management



**An introduction to research data management**

*Osigus, Leonhard-Marek*

**S/Ü** for the **3rd/5th/7th** semester **2 hours** max. **20 participants** Subject area: **Other**

*Approaches for the structured and sustainable handling of scientific data sets. Insights into various aspects of research data management and open science.*

**Block event** Wed 14:15-16:15 23.10.2024

**Further dates by arrangement: Registration at** [biblio@tiho-hannover.de](mailto:biblio@tiho-hannover.de)

*MS Teams*

Registration: **online**



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1043 General congress instead of university - student day at the bpt congress/EuroTier



Färber (bpt), Osterrieder, Tipold, Kleinsorgen

E for the 1st/3rd/5th/7th/9th semester 4 hours **100%**

Specialist area: **Individual animals, farm animals, other** Focus: **Small animal diseases, equine diseases, farm animalsCattle, farm animalsClawed animals, farm animalsPoultry, farm animalsOther, animal welfare**

*You can expect a free congress day with an exciting programme covering all aspects of livestock practice. In addition to specialist presentations, you will have the opportunity to visit not only the bpt trade fair for veterinary medicine, but also various halls of the EuroTier trade fair.*

*Further information on the programme will follow shortly.*

**Block event** Friday, 15 November 2024

**Arrival and departure to the exhibition centre is independent**

Hanover Exhibition Centre

Registration: **online**

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1045 T

**Anamnesis - dialogue simulation with actors and actresses**



Wissing, Kleinsorgen

V/Ü for the 5th/7th/9th semester 4 hours **100%** max. 12 participants

Speciality: **Individual animals, other** Focus: **Small animal diseases, pet diseases**

*As part of this compulsory elective course, you will first study the theoretical basics of communication and taking a medical history.*

*In the second, practical part, you can apply the communication strategies and techniques you have learnt and practise them in conversation with an actor or actress.*

*The dialogue simulation takes place in the communication system in the Skills Lab and is recorded. The simulation is followed by a feedback session.*

**Block course** theory unit in Moodle from 27.01.2025

Appointments for the call simulation in the communication system in the CSL:

Each person will be allocated one of the dates listed below for the practical exercise, which will be determined individually after the allocation of places.

Dates:

25.02.2025 from 9-11 a.m.

25.02.2025 from 11 a.m. to 1 p.m.

26.02.2025 from 10-12 o'clock

Start: 27.01.2025

**Please bring a smock.**

*TiHoMoodle from 27.01.25 and CSL by individual appointment.*

*Clinical Skills Lab*

*Bischofsholer Damm 15, Building 116*

*30173 Hanover*

Registration: **online**

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1046

**Deliveringbad news - dialogue simulation with actors and actresses**



Wissing, Kleinsorgen

V/Ü for the 5th/7th/9th semester 4 hours **100%** max. 16 participants

Speciality: **Individual animals, other** Focus: **Small animal diseases, pet diseases**

*As part of this compulsory elective course, you will first study the theoretical basics of communication in challenging situations, particularly with regard to breaking bad news. In veterinary practice, bad news includes, for example, diagnoses that have health or financial consequences.*

*In the second, practical part, you can apply the communication strategies and techniques you have learnt and practise them in conversation with an actor or actress.*

*The dialogue simulation takes place in the communication system in the Skills Lab and is recorded. The simulation is followed by a feedback session.*

**Block course** theory unit in Moodle from 27.01.2025

Appointments for the call simulation in the communication system in the CSL:

Each person will be allocated one of the dates listed below for the practical exercise, which will be determined individually after the allocation of places.

Dates:

05.02.2025 from 9-11 a.m.

05.02.2025 from 11-13 o'clock

12.02.2025 from 9-11 a.m.

12.02.2025 from 11 a.m. to 1 p.m.

Start: 27.01.2025

**Please bring a smock.**

*TiHoMoodle from 27.01.25 and CSL by individual appointment.*



Clinical Skills Lab  
Bischofsholer Damm 15, Building 116  
30173 Hanover  
Registration: **online**

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1050 Ph, T Learning stations in the Clinical Skills Lab



Wissing, Schneider, Bettermann, Chodzinski, Knoll, Ott, Mecklenborg, Rieke

**Exercise** for the **1st/3rd/5th/7th** semester max. **6 participants**  
Speciality: **individual animals, farm animals, diagnostics, preclinical, other**  
*Acquisition of clinical skills*

*You will receive 1 WP hour per CSL course attended if the course is listed as 1 hour on TiHoStudIS. Courses that run for 2 hours are also listed on StudIS as 2 hours and are remunerated accordingly with 2 WP hours.*

**Block event** After individual reservation/booking

Clinical Skills Lab  
Bischofsholer Damm 15, Building 116  
30173 Hanover


Registration: **TiHoStudIS "Registration for the Clinical Skills Lab"**

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1058 T **Block seminar small animal skills**



Tailor

**S/Ü** for the **5th/7th** semester **17 hours**  max. **12 participants** Subject area: **Individual animals**  
Focus: **Small animal diseases**

*Do you want to work in small animal medicine and are itching to learn practical skills? Then you've come to the right place.*

*In this elective, you will learn the basics and advanced skills that you will need in your daily work in small animal practice. From eye examination and intubation of dogs and cats to performing cystocentesis, many useful clinical skills are included. Of course, surgical skills such as suturing techniques are also practised.*

*Prerequisite for the WP: none*

**Block event** Dates: 2 days: 26.03.2025 and 27.03.2025 each 09.00-17.00 in the Clinical Skills Lab. If an exam falls on the date, the WP will be adjusted.

Start: 26.03.2025

**A lunch break is planned. Please bring your own lab coat. If you have your own stethoscope, you are welcome to bring it.**

**Further information will be forwarded directly to the participants by e-mail.**

Clinical Skills Lab  
Bischofsholer Damm 15, Building 116  
30173 Hanover


Registration: **online**

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1059 **Handling bird patients**



Bettermann

**S/Ü** for the **5th/7th** semester **12 hours**  max. **24 participants** Subject area: **Individual animals**  
Focus: **Pet diseases**

*Do you fear the patient bird and quickly reach your limits? Would you like to face your fear and do something about it by deepening and consolidating your knowledge of propaedeutics? Then this compulsory elective is just right for you! In this compulsory elective, we will focus intensively on the bird patient.*

*It is about the theoretical and practical teaching of the basics of dealing with the avian patient. As part of my dissertation, I practise with you the handling and performance of initial injection, blood sampling and dressing techniques on avian patients with the help of various newly developed simulators.*

*After a joint introductory event (1 x 4 hours online) on the theoretical basics, the group is divided into two groups. Half of the students complete training (1 x 4 hours each in groups of 4 to 6) on several different simulators (a single simulator for each skill), while the other half of the students complete training (1 x 4 hours each in groups of 4 to 6) on a multifunctional simulator (several skills can be performed on one simulator).*

*Finally, each student completes unknown scenarios independently (1 x 2 hours).*

**Block course** The date for the practical training and the date for the independent completion of unknown scenarios (Abtestat) for each student will be set individually via Moodle after the introductory event.

The date for the final examination takes place on the date closest to the practical exercise so that there is not too much time in between (e.g. practical exercise on 23 October 2024 -> final examination on 24 October 2024)!

Practical exercises (Only 1 appointment required):

23.10.2024 14:00 - 18:00  
30.10.2024 14:00 - 18:00  
04.11.2024 14:00 - 18:00  
13.11.2024 14:00 - 18:00



04.12.2024 14:00 - 18:00  
11.12.2024 14:00 - 18:00

Abtestat (Only 1 appointment required, duration approx. 2 hours!):

24.10.2024 (each from 09:30, 10:30, 11:30, 13:30)  
01.11.2024 (each from 09:30, 10:30, 11:30, 13:30)  
05.11.2024 (each from 09:30, 10:30, 11:30, 13:30)  
14.11.2024 (each from 09:30, 10:30, 11:30, 13:30)  
05.12.2024 (each from 09:30, 10:30, 11:30, 13:30)  
12.12.2024 (each from 13:30, 14:30, 15:30, 16:30)  
Start: 16.10.2024

**Please bring your own lab coat.**

**Further information will be forwarded directly to the participants by e-mail.**

*Clinical Skills Lab  
Bischofsholer Damm 15, Building 116  
30173 Hanover*

Registration: **online**

1061

## **TEnsight into the gynaecology of cattle**



*Rieke*

**S/Ü** for the **5th/7th** semester **7 hours** **100%** max. **8 participants** Subject area: **Farm animals**

Focus: **LivestockCattle**

*Are you interested in reproductive medicine in cattle? This elective course provides an insight into the gynaecological examination of cattle, artificial insemination and obstetrics. We also discuss the scenario of uterine prolapse and practise the insertion of a stage ligament. All practical content is carried out on simulators.*

**Block event** Wed 14-16 h

Each person will be allocated one of the three dates listed below for the practical exercises, which will be determined individually after the allocation of places.

Periods:

04.12.24 | 11.12.24 and 18.12.2024  
15.01.25 | 22.01.25 and 29.01.2025

Please note:

The first two dates of each period take place from 2pm to 4pm, the third date (18.12.24 and 29.01.24) from 1pm to 4pm.

**Please bring a smock.**

**Further information will be forwarded directly to the participants by e-mail.**

*Clinical Skills Lab  
Bischofsholer Damm 15, Building 116  
30173 Hanover*

Registration: **online**

1062

## **TEuthanasia in veterinary medicine**



*Wissing, Mecklenborg, Bettermann, Schneider, Kleinsorgen*

**S/Ü** for the **5th/7th** semester **8 hours** **100%** max. **8 participants**

Speciality: **individual animals, farm animals** Focus: **small animal diseases, equine diseases, pet animal diseases, farm animalsCattle, farm animalsClawed animals**

*Carrying out a euthanasia is a necessary procedure that is often part of the veterinarian's daily routine, but can nevertheless be associated with uncertainties regarding the correct decision-making process and a great deal of emotional stress for both the pet owner and the veterinarian.*

*This elective consists of theoretical introductions and practical exercises and deals with methods of killing farm animals and companion animals. Each student is given the opportunity to learn skills on both large and small animals as part of these practical units.*

*In addition, the theoretical basics of breaking bad news are taught and euthanasia conversations are simulated and practised in various constellations with professional actors and actresses as patient owners in the Clinical Skills Lab's communication system. Following the simulated conversation, which is recorded, detailed personalised feedback is given.*

**weekly event** Wed 14-16 hrs Dates for the whole group:

06.11.2024 | 13.11.2024 | 20.11.2024

Dates for the dialogue simulation in small groups:

27.11.2024 OR 04.12.2024

The date for the interview simulation will be determined individually after the allocation of places. Start: 06.11.2024

**Please bring your own smock.**

**Further information will be forwarded directly to the participants by e-mail.**

*Clinical Skills Lab  
Bischofsholer Damm 15, Building 116  
30173 Hanover*

Registration: **online**





Knoll

**S/Ü** for the **5th/7th** semester **2 hours** **100%** max. **12 participants** Subject area: **Individual animals**  
Focus: **Pet diseases**

*Turtles are one of the most common reptile species kept as pets and their shell makes them unique. However, it is precisely this shell that sometimes limits the possibilities for examination and treatment. In some cases, such as for the treatment of a laying offence, the removal of foreign bodies or urinary stones, the shell and the coelomic cavity must therefore be opened. This procedure is known as a plastrotomy. To date, however, there have been few opportunities for trainee vets to learn or even deepen their knowledge of this surgical technique in line with animal welfare requirements.*

*And that is exactly what we want to change with this compulsory voting!*

*As a supplement to the existing elective courses (e.g. "Surgical interventions in reptiles"), you will learn all the important steps of a plastrotomy in a short theory block and then be allowed to perform this surgical technique yourself in small groups of four people using our specially developed turtle simulators.*

**Block event** Wed 14-16 h

Each person will be allocated one of the dates listed below for the practical exercise, which will be determined individually after the allocation of places.

Dates:

13.11.24

04.12.24

22.01.25

Start: 13.11.2024

**Please bring your own mouth and nose protection (FFP2 mask because of the dust) and a smock.**

**Further information will be forwarded directly to the participants by e-mail.**

*Clinical Skills Lab*

*Bischofsholer Damm 15, Building 116*

*30173 Hanover*

Registration: **online**



Mecklenborg

**S/Ü** for the **3rd/5th/7th** semester **8 hours** **100%** max. **24 participants** Subject area: **Individual animals**  
Focus: **Equine diseases**

*Are you a horse enthusiast and ready to get hands-on? Then the "Colic" horse practical day at the CSL is just the thing for you!*

*On this practical day, you will work through the examination of a colic patient based on a clinical case and carry this out yourself on our simulators. Together you will develop a suspected diagnosis and your own treatment ideas.*

*To prepare for your practical day appointment, you will receive access to a Moodle course, which must be completed up to one week before your appointment.*

**Block event** One of the dates listed below for the practical exercise per person, which will be determined individually after the allocation of places.

Dates from 9am to 3pm:

27.01.2025

28.01.2025

27.02.2025

31.03.2025

If an examination falls on this date, the WP will be adjusted if necessary.

Start: 27.01.2025

**A lunch break is planned. Please bring a smock.**

**Further information will be forwarded directly to the participants by e-mail.**

*Clinical Skills Lab*

*Bischofsholer Damm 15, Building 116*

*30173 Hanover*

Registration: **online**



*Hoedemaker, Gundling, Do Duc, Jensen, Kallmeyer*

**GV** for the **7th** semester **8 hours** max. **2 participants** Subject area: **Farm animals**  
Focus: **LivestockCattle**

*Teaching practical skills in the context of ITB in cattle*




**Block course** in the mornings as per call. By arrangement, 50% of the maximum number of hours per excursion can be credited as a special compulsory elective (T2) as part of course 0347.

**Protective clothing is required!**

**The notice "Safety regulations" (see TiHoStudIS/Blackboard) must be observed.**

*Departure: Clinic for cattle*



1101	<p><b>TA</b>selected chapters from bovine medicine </p> <p><i>Hoedemaker, Bajcsy, Schmicke, Gaude, Gundling, Heppelmann, Küskens and scientific staff, employees</i></p> <p><b>S</b> for the <b>5th</b> semester <b>28 hours</b> <b>100%</b> max. <b>20 participants</b> Subject area: <b>Farm animals</b> Focus: <b>LivestockCattle</b></p> <p><i>Teaching of topic-specific content from the fields of internal medicine, surgery, including anaesthesiology, reproductive medicine and udder diseases.</i></p> <p><b>fortnightly event</b> Wed 14-18 h Start: 16.10.24 <b>Protective clothing required!</b> <b>You can find a list of topics on TiHo-Moodle.</b> <b>The notices "Safety regulations" and "Failure to comply with regulations" must be observed.</b></p> <p><i>Clinic for cattle</i></p> <p>Registration: <b>online</b></p>
1102	<p><b>TFarmSkills4Vets - the virtual dairy cow farm -</b> </p> <p><b>Self-directed learning of the basics of veterinary medicine</b></p> <p><i>Hoedemaker, Hoischen</i></p> <p><b>C</b> for the <b>3rd/5th/7th</b> semester <b>12 hours</b> <b>100%</b> Subject area: <b>Livestock</b> Specialisation: <b>Livestock Cattle</b></p> <p><i>Analysing herd problems and preventing diseases is becoming increasingly important in cattle practice. The herd animal medicine working group at the Clinic for Cattle has developed a virtual dairy cow farm, "FarmSkills4Vets", in which the basics of herd animal medicine on dairy cow farms are taught in a practical way. Students take on the role of the veterinarian in charge of the herd and can explore the virtual dairy cow farm at their own pace in the form of a tour of the barn. The learning content is conveyed through explanatory and example videos from practice, as well as puzzles, images and sound recordings. Integrated questions encourage students to apply the knowledge gained in the virtual dairy cow farm in a practical way. Before the tour of the barn begins, the students are invited to a pre-evaluation. Following the visit to the virtual dairy cow farm, a second evaluation is carried out by the students. Participation in both evaluations (online, about 10 minutes each) is a prerequisite for receiving the compulsory elective hours.</i></p> <p><b>Block course</b> freely selectable</p> <p>Registration: <b>online</b></p>
1104	<p><b>TA</b>Actual topics in the "Buiatrics" seminar series </p> <p><i>Scientific staff of the clinic and other lecturers</i></p> <p><b>S</b> for the <b>5th/7th</b> semester <b>11 hours</b> max. <b>80 participants</b> Subject area: <b>Farm animals</b> Focus: <b>LivestockCattle</b></p> <p><i>This event will focus on current topics relating to buiatrics. The current state of knowledge and the significance for practice will be presented and discussed in detail following the presentations.</i></p> <p><b>Block event</b> Tue 16:00-17:00 22.10., 29.10., 5.11., 12.11., 19.11., 26.11., 3.12., 10.12., 17.12., 7.1, 14.1. Start: 22.10.2024 <b>Students in the 9th semester are also admitted. The "Safety regulations" notice must be observed.</b></p> <p><i>Demo hall Richard-Götze-Haus</i></p> <p>Registration: <b>online</b></p>
1105 T	<p><b>Systematic laboratory diagnostics for practice - focus on livestock, economics</b> </p> <p><i>Schmicke, Fabian Schless</i></p> <p><b>S</b> for the <b>3rd/5th/7th</b> semester <b>14 hours</b> max. <b>10 participants</b> Subject area: <b>Farm animals</b> Focus: <b>Farm animalsCattle, Farm animalsClawed animals</b></p> <p><i>Pre-analysis, sample processing, storage, influencing factors</i> -reference range, normal value, standard range and co -Clinical chemistry -Haematology -Endocrinology -et al. -How do I interpret a laboratory result?</p> <p><b>fortnightly event</b> Fri 14-16 h Start: 11.10.24</p> <p><i>Library of the Clinic for Cattle, Ri-Gö-Haus, 1st floor</i></p> <p>Registration: <b>online</b></p>
1106	<p><b>TA</b>end treatments (in small groups) </p> <p><b>Compulsory elective component as part of LV 0351</b></p> <p><i>Lecturers of the clinic see LV 0351</i></p> <p><b>GV</b> for the <b>5th/7th</b> semester <b>4 hours</b> max. <b>3 participants</b> Subject area: <b>Farm animals</b> Focus: <b>LivestockCattle</b></p> <p><i>Examination and treatment of patients to impart skills and abilities in diagnostics and treatment.</i></p>



Therapy including surgical manipulation of the patient

**Block course** By arrangement, 50% of the maximum number of hours can be credited as a special compulsory elective as part of course 0351.

**For further information see LV 0351**

**The "Safety regulations" notice must be observed.**

*Building of the clinic for cattle*

Registration: **Online via TiHo students**

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1107 T

**Diagnostic-therapeutic exercises on cattle (in small groups)**



**Compulsory elective component as part of LV 0363**

*Lecturers of the clinic see LV 0363*

**GV** for the **5th/7th** semester **4 hours** max. **4 participants** Subject area: **Farm animals**

Focus: **LivestockCattle**

*Examination and treatment of patients to teach skills and abilities in diagnostics and therapy, including surgical manipulation of patients*

**Block course** By arrangement, 50% of the maximum number of hours will be credited as a special compulsory elective as part of course 0363.

**For further information see LV 0363**

**The "Safety regulations" notice must be observed.**

*Building of the clinic for cattle*

Registration: **Registration via TiHoStudis**

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1121 T

**Avian medical diagnostics**



**Propaedeutics in poultry, ornamental, zoo and wild birds as well as significant diseases, diagnostic procedure, therapy and prophylaxis**

*Beykirch, Hein, Hennig, Jung, Legler, Lindenwald, Wunderl, Pees, Rautenschlein, Rubbenstroth, Stelter*

**S** for the **3rd/5th/7th** semester **25 hours** **100%** max. **15 participants**

Speciality: **Individual animals, farm animals** Focus: **Pet diseases, farm animalsPoultry**

*Introduction to the veterinary care of poultry flocks and the clinical examination of ornamental, zoo and wild birds. Introduction to the diagnosis and control of important diseases with practical exercises.*

**weekly event** Wed 14-16 h Start: 09.10.2024

**The course starts in the lecture hall of the Clinic for Pets, Reptiles and Birds, Wednesday 09.10.24, 14:15. The preliminary WP plan with the corresponding topics and times can be found on Moodle under course number 1121 and will be announced at the beginning of the semester.**

*This event will take place as a face-to-face event. The event starts in the lecture theatre of the Clinic for Pets, Reptiles and Birds, Wednesday 09.10.24, 14:15.*

Registration: **online**

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1122 Ph, T **Veterinary care of wild birds: Case studies, diseases, species identification, habitat  and behaviour as a basis for wild bird medicine**

**- Migratory birds, winter visitors and wintering birds -**

*Legler*

**S/Ü** for the **3rd/5th/7th** semester **35 hours** **100%** max. **16 participants**

Speciality: **Individual animals, other** Focus: **Pet diseases**

*This compulsory elective subject takes place as a classroom course (14 days) with a focus on wild bird medicine. In addition, 3 field trips are planned in the vicinity of Hanover. These excursions take place once a month at the weekend. A zoological facility that keeps birds permanently will also be visited.*

**Fortnightly event** Wed 16:15-17:00 Start: 09.10.2024

**The first event will take place on 09.10.24 at 16.15 -17.00 in the lecture theatre of the Clinic for Pets, Reptiles and Birds.**

**The excursion destinations and dates will be announced at the beginning of the semester.**

**Postponements are possible due to the winter weather.**

*Hörsall clinic for pets, reptiles and birds or field excursion*

Registration: **online**

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1133

**TV supply and care of inpatient pet patients**



*Reuschel, Krull*

**S/Ü** for the **3rd/5th/7th** semester **20 hours** max. **10 participants** Subject area: **Individual animals**

Focus: **Pet diseases**

*Assisting with inpatient care, administering medication and hand-feeding pets and native wild animals at weekends*

**Block event** Dates: by arrangement, 2 dates for familiarisation, then divided into Saturday/Sunday approx. 8.15h-10.00h and/or 16.15-18.00h. The schedule is by arrangement. **Duration: 2 semesters, shorter by arrangement, at least 9 dates.**

*Clinic for pets, reptiles and birds*

Registration: **E-Mail (mona.krull@tiho-hannover.de)**



1134

**Imaging diagnostics for pets****Preparation and interpretation of X-rays, ultrasound examinations and computer tomographies of healthy and diseased pets***Reuschel, Dierig, Krull, Willems, Kopp, Küper, Schwartpaul***S** for the **5th/7th** semester **14 hours** max. **10 participants** Subject area: **Individual animals, other**  
Focus: **Pet diseases***Part 1 in the winter semester: The course explains the basics of X-rays, sonography and computer tomography in pets. The practical implementation, avoidance of positioning errors and correct recognition of artefacts are discussed and practised in the course. Practical case examples will then be presented, organised by organ system, and the diagnostic imaging for the case will be interpreted and diagnosed.***Fortnightly event** Wed 14:15-15:45 Start: 09.10.2024**Every 14 days on the following dates: 16.10.2024, 30.10.2024, 13.11.2024, 27.11.2024, 11.12.2024, 08.01.2025, 22.01.2025**

Seminar room 1, 1st floor Klinikum Bünteweg

Registration: **online**

1135 Ph, T X-ray of reptiles

**Interpretation of X-ray images of healthy and diseased reptiles***Mathes, Hetterich***S** for the **3rd/5th/7th** semester **12 hours** **100%** max. **12 participants**Speciality: **Individual animals, diagnostics, other** Focus: **Pet diseases***Teaching the anatomy used to interpret X-ray images of reptiles, overview of radiologically relevant physiological and pathological findings, case studies from the reptile clinic***weekly event** Wed 14-15:00 Start: 09.10.2024**Weekly seminars are made available for self-study via Tiho-Studies and dates are offered for practical exercises.start 09.10.24; 14:00***Online event and individual dates in presence*Registration: **online**

1141

**The dog in old age - what does "old" mean?****Physiology - Pathophysiology - Clinic***Volk, Mandel, Nerschbach, Rieder***V/S** for the **5th/7th** semester **7 hours** **100%** max. **12 participants** Subject area: **Individual animals**Focus: **Small animal diseases***Most of a dog's life is spent in old age. Nevertheless, very few veterinarians have experience in diagnosing and treating geriatric animals. The aim of this elective course is to close this gap and prepare today's students as future veterinarians for geriatric dogs.***Block event** Wed 14-17 h

15.01.2025

Start: 15.01.2025

*Clinic for Small Animals: Glazed seminar room 1st floor No. B1 0281.1016*Registration: **online**

1142 T

**Locoregional anaesthesia techniques in small animals***Kästner, Schütter, Neudeck, Tünsmeier, Henze***S/Ü** for the **7th** semester **14 hours** max. **15 participants** Subject area: **Individual animals**Focus: **Small animal diseases***Pharmacology of local anaesthetics, methods of local anaesthesia, nerve stimulator-guided nerve block, ultrasound-guided nerve block***Fortnightly event** Wed 14:00-16:00 Start: 16.10.2024*Large seminar room, 1st floor, glass room, Klinikum am Bünteweg 9*Registration: **online**

1143 T

**Complication management in general anaesthesia***Kästner, Schütter, Henze, Neudeck and team***S** for the **7th** semester **8 hours** **100%** max. **24 participants** Subject area: **Individual animals**Focus: **Small animal diseases***As part of the WP, knowledge about common complications during general anaesthesia in small animals is acquired and then applied and deepened in the context of interactive case simulations.***Block event** 15.11.24 & 22.11.24

or 10.01.25 &amp; 17.01.25

each 13 - 17 h s.t.

**Please bring a gown for the second appointment, as the simulations will take place in a room in the operating theatre or imaging area of the clinic.****The course takes place in November or January as a block event with identical content in order to**



to enable several students to participate. Allocation to the dates (November or January) takes place centrally.

Klinikum am Bünteweg, 1st floor - glazed seminar room "Fako-Raum"

Registration: **online**

1144

#### TWebinar "Selected topics from small animal medicine"



##### Online compulsory elective course

Bennmann (Hanover), Betz, Busse, Ghergina (Leipzig), Goericke-Pesch, Kleinsorgen, Knell (Zurich), Kohn (Berlin), Ludewig (Vienna), Müller-Anders, Nollf (Zurich), Oechtering (Leipzig), Packeiser, Peppeler (Giessen), Schulz (Munich), Volk, Wefstaedt, Wehner (Munich), Weingart (Berlin)

S for the 5th/7th/9th semester **14 hours** **75%** max. **200 participants** Subject area: **Individual animals**  
Focus: **Small animal diseases**

A webinar (web seminar) is an innovative way of involving specialists from other veterinary faculties as lecturers alongside lecturers from the TiHo. In this way, expert opinions from various areas of small animal medicine can be communicated in a practical and cross-university manner. The chat function provides the opportunity for interactive participation, discussion and questions. The inclusion of students from other faculties of veterinary medicine also promotes inter-university exchange.

The event is being organised jointly by the University of Veterinary Medicine Hannover, the Free University of Berlin, the Justus Liebig University Giessen, the University of Leipzig, the Ludwig Maximilian University of Munich, the VetmedUni Vienna and the Vetsuisse Faculty Zurich.

**weekly event** Wed 17:15-18:00 Start: 09.10.2024

**Before the first date, a registration link will be sent by e-mail, under which each student can register with a personal access for all 14 dates. This is used to check attendance and should therefore not be passed on to others.**

Zoom

Registration: **online**

1145

#### TResuscitation in small animal medicine: theory and interactive case simulation



Kästner, Schütter, Henze, Neudeck and team

**Exercise** for the 7th semester **4 hours** **100%** max. **48 participants** Subject area: **Individual animals**  
Focus: **Small animal diseases**

As part of this WP, students will work on the theoretical basics of resuscitation in small animals in small groups and can then apply and consolidate the knowledge they have learnt in interactive case simulations.

**Block event** 25.10.2024 or

08.11.2025 or

29.11.2024 or

24.01.2024

each 13-17 h s.t.

**Please bring a gown, as the simulations will take place in a room in the operating theatre or imaging area of the small animal clinic.**

**The course takes place on 4 dates, each with identical content. The course is offered for 12 participants on each of the dates. Participants are allocated to the respective dates centrally; you will receive information about "your" date by e-mail.**

Klinikum am Bünteweg: 1st floor - glazed seminar room "Fako-Raum",  
ONLY 29.11.2024: Seminar room 2 (parallel corridor).

Registration: **online**

1146

#### TFault culture in veterinary medicine



##### - how we learn from mistakes together

Holger Volk, Christin Kleinsorgen, Claudia Busse, et al.

S for the 1st/3rd/5th/7th/9th semester **6 hours** **100%** max. **20 participants** Subject area: **Individual animals**

We want to talk about mistakes together. When and how do mistakes happen? How do we deal with them? What is an error culture and what influence does the correct handling of errors have on the team?

**Block event** 13.11. / 18.12. / 22.01.25

14.15 - 15.45

Seminar room Clinic for Small Animals, 2nd floor

Registration: **E-Mail (claudia.busse@tiho-hannover.de)**

1148 T

#### Implant infections - clinical problems, therapeutic strategies, research approaches



Tyre rath

**GV** for the 5th/7th/9th semester **8 hours** **100%** max. **15 participants**

Speciality: **Individual animals, research**

In this WP course, the clinical problems of infections in surgery are shown and various approaches to therapy are discussed.

It also provides an insight into new therapeutic strategies and research approaches and introduces the Lower Saxony Centre for Biomedical Engineering, Implant Research and Development

**Block event** Wed 14:00-17:00

08.01. and 22.01.2025

Start: 08.01.2025



1149

### T Basics of X-ray diagnostics in dogs and cats



Kramer

**V/Ü** for the **7th** semester **20 hours** **75%** max. **100 participants**

Speciality: **individual animals, diagnostics** Focus: **small animal diseases**

*This course discusses the general principles of X-ray technique and positioning in dogs and cats. In addition, normal radiological findings and pathological changes in the thorax, abdomen and skeletal system are explained. In the exercises, you will then describe and assess the presented cases together.*

**Block event** Wed 16:00-17:30 16.10.

23.10.

06.11.

13.11.

20.11.

27.11.

04.12.

11.12.

08.01.25

15.01.

Start: 16.10.2024

**Lectures and tutorials start at 16.00 s.t. Lectures and**  
**tutorials: Online (via Teams)** Registration: **online**

1150 T

### Basics and techniques of pain therapy



Kästner, Schütter, Neudeck, Tünsmeier, Rupp, Henze

**S** for the **7th** semester **14 hours** max. **40 participants** Subject area: **Individual animals**

Focus: **Small animal diseases**

*Pain recognition and assessment in animals, systemic and regional therapy of acute and chronic pain, limits and ethical aspects of pain therapy.*

**Fortnightly event** Wed 14:00-16:00 Start: 9.10.2024

*Demo lecture theatre clinic for small animals*

Registration: **online**

1151

### T Neurological key feature cases on the spinal cord and peripheral nervous system



Reeh, Schaper, Kleinsorgen, Volk, Tipold

**S** for the **5th/7th** semester **10 hours** max. **600 participants** Subject area: **Individual animals, diagnostics**

Focus: **Small animal diseases**

*The most important neurological issues, cases, diagnostics and therapy are studied online in short sections. In this compulsory elective course, 21 case studies are available in key feature format on the topics of the spinal cord and peripheral nervous system. For each case, 3 questions are to be worked on online in CASUS. If there are still questions to be answered, a virtual classroom with MS teams will be held at the end of the course by appointment (please contact Mrs Reeh).*

*Goals:*

*- Neurology for the practice - in a nutshell*

**Block event** 14.10.2024 - 10.01.2025

Start: 14.10.2024

**If there are any remaining questions, a virtual classroom with MS teams will be held at the end by appointment (please contact Mrs Reeh).**

*online case processing: CASUS*

Registration: **online**

1152 T Learning in motion through play - small animal neurology  
Problem-orientated running



Neßler

**Ü** for the **5th/7th** semester **22 hours** max. **100 participants** Subject area: **Individual animals**

Focus: **Small animal diseases**

*A scavenger hunt (=Bound) in the Eilenriede, where you solve real cases in small groups and collect points.*

*On foot, by bike or as a walk with the dog (approx. 2-4 km, duration 2-3 hours each) you will learn about the treatment of patients with a neurological disease and the most common pitfalls based on real cases.*

**Block course** to be completed flexibly and independently during the semester

**For this you need (per group):**

- a functioning smartphone (incl. GPS, sufficient battery power and data volume)
- the Actionbound app (<https://actionbound.com/agb>)
- weatherproof clothing



Documents for the preparation and follow-up of the cases are available via TiHoMoodle.

Campus, Eilenriede

Registration: **online**

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1153 T

**Webinar "Internal Medicine Case Discussions"**



Mischke

**S** for the **7th** semester **14 hours** max. **40 participants** Subject area: **Individual animals**  
Focus: **Small animal diseases**

*Discussion of various internistic problems on the basis of selected case studies.*

**Block event** Wed 18:00 hrs Start:

18.00 hrs s.t.

Start: 09.10.2024

*Lecture theatre clinic for small animals, ground floor (demo hall)*

Registration: **online**

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1154

**TE-Learning - CASUS Ophthalmology**



Busse, Claudia; Boevé, Michael

**GV** for the **5th/7th/9th** semester **10 hours** max. **300 participants** Subject area: **Individual animals**  
Focus: **Small animal diseases**

*In this course you will be able to work independently on 10 cases of common diseases in ophthalmology using the CASUS programme.*

**Block event** Self-registration in the CASUS course from 09.10.2024 Start:  
09.10.2024

**An invitation to the course will be sent by e-mail.**

**Up to 10 CASUS cases can be processed asynchronously and independently. 1 hour is credited for each case worked on.**

**WLAN-enabled computer.**

*O n l i n e*

Registration: **online**

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1155

**TE-Learning - CASUS Neurology**



**Intervertebral discs - Epilepsy - Neuroimmunology**

Tipold, Kleinsorgen, Reeh, Schaper

**S** for the **7th** semester **12 hours** max. **300 participants** Subject area: **Individual animals**  
Focus: **Small animal diseases**

*In this course, you will be able to work independently on 9 cases of common neurological diseases using the CASUS programme. If you still have questions, a virtual classroom with MS teams will be held at the end of the course by appointment (please contact Mrs Reeh). In addition, lecture recordings on neurology can be viewed on StudIS.*

**Block event** Self-registration in the CASUS course from 14.10.2024 Start:  
14.10.2024

**An invitation to the course will be sent by e-mail on 14 October 2024. Final event in the virtual classroom by arrangement. End of case processing 10.01.2025.**

**9 CASUS cases are worked on independently online. Hours are credited based on the number of cases worked on.**

*flexible, online at home or on the computer at the TiHo*

Registration: **online**

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1161 T

**Herd management (sheep, goats)**



**WP excursions in sheep, goat and alpaca herds**

Ganter, N.N.

**Exercise** for the **5th/7th** semester **8 hours** max. **3 participants** Subject area: **Farm animals**  
Focus: **Farm animals****Clawed animals**

*Herd inspections, treatments and counselling in sheep, goat and alpaca flocks*

**Block event** Excursions irregularly (usually Tuesdays and Wednesdays) after announcement (see notice board in the clinic), max. 8 hours/excursion. Rides also take place during the semester holidays. Please sign up on the list on the notice board in the clinic.

Start: 14.10.2024

**Protective clothing (overalls, plastic overshoes) will be provided by the clinic. You should bring sturdy shoes, clothing suitable for the weather and some food.**

*Departure: Clinic for small cloven-hoofed animals at 8 a.m.*

Registration: **Please register on the notice board in the clinic for small cloven-hoofed animals. Please also leave your mobile phone number in the office in case you need to change your appointment.**

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1162

**TEntroduction for lamb helpers**



Gander

for the **1st/3rd/5th/7th** semester **4 hours** max. **60 participants** Subject area: **Farm animals**  
Focus: **Farm animals****Clawed animals**

*General overview for lambing assistants on birth hygiene, obstetrics and lamb rearing. The lecture is intended for students who want to do a lambing internship afterwards.*



**Block event** On

Friday, 17.01.25 from 2 to 4 pm and 24.01.25 from 2 - 4 pm.

Start: 17.01.25

**Please bring a clean white coat if possible.**

*Lecture theatre of the clinic for small cloven-hoofed animals on the ground floor*

Registration: **online**

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1163 Ph, T Participation in evening treatment



*v. Altrock, Kiene, Schregel, Grozewa, Lippold*

**Exercise** for the **3rd/5th/7th** semester **1 hour** max. **2 participants** Subject area: **Farm animals**  
Focus: **Farm animalsClawed animals**

*Examination and treatment of patients to impart skills and abilities in diagnostics and therapy*

**Weekly event** Mon-Fri 17:00 Start: 14.10.2024

**Bring protective clothing (clean smock, rubber boots and apron). Please note further information.**

*Clinic for small cloven-hoofed animals - Stables*

Registration: **Please register in advance at the office of the Clinic for Small Cloven-hoofed Animals**

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1164

**TWhat do the lab results tell me?**



*PD Dr Esther Humann-Ziehank*

**S** for the **7th** semester **2 hours** **100%** max. **12 participants** Subject area: **Farm animals, diagnostics**  
Focus: **Farm animalsCattle, Farm animalsClawed animals**

*Using examples from the livestock sector (small and large livestock, pigs), we interactively work through the main findings of laboratory results (haematology and clinical chemistry) and clarify all questions regarding the significance of individual parameters. We also discuss the significance of the overall findings for individual animals and herds.*

**Block event** Wed 14-16 h

06.11.24; 14-16 h

Start: 06.11.24

**The documents will be sent by e-mail.**

**The number of participants is limited to 14 students**

*Auditorium of the Clinic for Small Cloven-hoofed*

*Animals EG* Registration: **online**

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1165

**THaematology in pets**



*Wagener, Marahrens*

for the **5th** semester **20 hours** max. **500 participants**

Speciality: **Individual animals, farm animals, diagnostics** Focus: **Small animal diseases, farm animalsCattle, farm animalsClawed animals**

*Independent consolidation of haematological knowledge and skills using digitised case studies with a haematological focus*

**Block event** online

online

Registration: **online**

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1167 **General animal training with the mini pig**



**We get to know the pig**

*Jeanette Niepold, Isabel Hennig-Pauka, Yvonne Armbrecht*

**Ü** for the **1st** semester **30 hours** max. **20 participants** Subject area: **Individual animals**

*Pigs are clever, but this is often not recognised. This animal species is also capable of top cognitive performance if we can adapt to the special characteristics of the pig, empathise with the individuals with their different character traits and arouse positive emotions. With the right training method, this is really fun!*

*After an introduction and instruction by an animal trainer in the first course on 18 October 2023, for which two compulsory elective hours are credited, the students can train the clinic's own mini pigs independently over the course of the semester at their own pace. At the end of the semester, we will look at what training successes have been achieved! Perhaps one of the pigs will lie down on command or walk to the scales on its own, making animal health checks much easier in future!*

*If a training session is to be completed with a pig, the student registers in the office of the Clinic for Small Cloven-hoofed Animals and is credited with one compulsory elective lesson.*

**Block course** Mandatory introductory date at the beginning of the semester (to be announced) - all other dates during the current semester on your own responsibility during the clinic's normal opening hours or by arrangement. Daylight hours should be taken into account.

**Please register in the office before each appointment, please bring protective clothing**

*Clinic for small cloven-hoofed animals, south-facing cultivation and outdoor run*

Registration: **E-Mail (Jeanette.Niepold@tiho-hannover.de)**



1169

### TSurprises at birth in the cattle and sheep barn Selected infectious abnormalities in ruminants



Bajcsy, farmer

S for the 7th semester 2 hours **100%** max. 24 participants Subject area: Farm animals, aetiology

Focus: Farm animalsCattle, farm animalsClawed animals, infectious medicine

Interdisciplinary seminar on infectious anomalies in cattle and sheep. The aim of the seminar is to make students fit for livestock practice and to solve health challenges across species.

Block event 10.01.25, 14:15-15:45

Start: 10.01.2025

Online meeting with MS Teams

Registration: online

1170

### TWhen do I kill - the "rational reason" in (livestock) veterinary medicine Selected aspects of professional and ethical law



Höltig, from Altröck, large supplement

S for the 7th semester 2 hours **100%** max. 30 participants

Specialist area: individual animals, farm animals, other specialisations: small animal diseases, equine diseases, pet animal diseases, farm animalscattle, farm animalscloven-hoofed animals, animal welfare

In the course of practising veterinary medicine, veterinarians are repeatedly confronted with legal issues. The seminar series "Selected aspects of professional and ethical law" is intended to shed light on specific issues of professional and ethical law. The seminar "When do I kill..." deals with the legally compliant balance between treatment and preservation of life on the one hand and euthanasia to avoid pain, suffering and damage on the other.

Block event 13.11.2024; 14-16 h Seminar room

of the clinic for small cloven-hoofed animals

Registration: online

1171

### TPig practice 2.0 - between animal health and animal welfare



Höltig, Bischoff

S for the 1st/3rd/5th/7th semester 3 hours **100%** max. 30 participants Subject area: Farm animals

Focus: Farm animalsClawed animals

Together with colleagues from the field, the seminar is intended to provide insights into the everyday practice and work of a specialised pig veterinarian and to enable joint discussion of the challenges of modern, future-oriented pig husbandry and medicine.

Block event 18.12.2024; 2-5 pm Seminar room

of the clinic for small cloven-hoofed animals

Registration: online

1172 TP

### Practical pitfalls with professional liability - how do I insure myself properly? Selected aspects of professional and ethical law



Höltig, von Altröck, Evers

S for the 7th semester 2 hours **100%** max. 30 participants

Speciality: individual animals, farm animals, other

In the course of practising veterinary medicine, veterinarians are repeatedly confronted with legal issues. The seminar series "Selected aspects of professional and ethical law" is intended to shed light on specific issues of professional and ethical law. The seminar "Pitfalls in professional liability..." deals with the aspect of the obligation of veterinarians to insure themselves adequately within the framework of professional law and to deal with any problems that may arise.

Block event 04.12.2024; 14-16 h Seminar room

of the clinic for small cloven-hoofed animals

Registration: online

1173

### TWhat does the German Veterinary Chamber actually do? Insights into the work of the BTK Selected aspects of professional and ethical law



Höltig, from Altröck, Stampa

S for the 1st/3rd/5th/7th semester 2 hours **100%** max. 30 participants Subject area: Other

In the course of practising veterinary medicine, veterinarians are repeatedly confronted with legal issues. The seminar series "Selected aspects of professional and ethical law" is intended to shed light on specific issues of professional and ethical law. In the seminar "What does the German Veterinary Chamber actually do?...", the 2nd Vice President of the German Veterinary Chamber, Dr Evelin Stampa, will provide insights into the work of the BTK and highlight opportunities for cooperation and involvement.

Block event 20.11.2024; 2 - 4 pm Seminar

room of the clinic for small cloven-hoofed

animals Registration: online



1185

**TSpecial surgery horse**

*Delling, Verhaar, Hellige, Sauer, Geiger, Grages, Kerbert, von Borstel, Grages*

**V** for the **5th/7th** semester **28 hours** **75%** Subject area: **Individual animals**

Focus: **Equine diseases**

*Indications and surgical techniques, as well as post-operative care and complications are taught*

**weekly event** Wed 14:15-15:45 Start: 09.10.2024

**The lecture notes and other material will be made available via Moodle.**

*In-person event in the Boehringer lecture theatre of the equine clinic*

Registration: **online**

1201

**TExamination of pigs on farms with established pig practitioners**

*Hennig-Pauka (organiser), veterinarians in private practice in NRW and Baden-Württemberg*

**E** for the **5th/7th** semester **10 hours** max. **10 participants** Subject area: **Farm animals**

Focus: **Farm animals****Clawed animals**

*Students from the 5th semester onwards can experience at first hand the day-to-day work of professional colleagues who specialise in looking after pig herds.*

**Block event** Individual appointments will be organised individually if interested

**Registration, preliminary discussion and appointment allocation with Isabel Hennig-Pauka**

*NRW or Baden-Württemberg*

Registration: **E-Mail** ([isabel.hennig-pauka@tiho-hannover.de](mailto:isabel.hennig-pauka@tiho-hannover.de))

1203 Ph, T Understanding pig farms

**What influences animal health in pig herds - initial insights into pig farming**

*Annika Joost, Isabel Hennig-Pauka (organiser)*

**Exercise** for the **3rd** semester **8 hours** max. **100 participants** Subject area: **Farm animals**

Focus: **Farm animals****Clawed animals**

*You can familiarise yourself with the animal environment of pigs on your computer as part of a Moodle course. In 360° barn tours, you will gradually learn about things that influence the health of pigs and solve various tasks. The course is also aimed at those who have never had contact with pigs but are curious about pig medicine.*

**Block course** Access to Moodle course will be activated

**If you are interested, please also send a short email to [isabel.hennig-pauka@tiho-hannover.de](mailto:isabel.hennig-pauka@tiho-hannover.de)**

*Moodle*

Registration: **online**

1204

**TVfrom the barn to the plate - the life of our pigs**

*Hennig-Pauka, Doris Hölting, Jeanette Niepold*

**E** for the **1st** semester **20 hours** **100%** max. **16 participants** Subject area: **Farm animals, foodstuffs**

Focus: **farm animals, cloven-hoofed animals, infectious medicine**

*This excursion is aimed at all those who...*

*... have never been in a pigsty before*

*... are interested in pigs*

*... would like to meet pigs*

*... like pigs*

*... want to get to know pig farming*

*... want to know how meat is produced*

*One-off excursion over 2 days, departure approx. 6.30 am, visit to the pig farm, barbecue school (information about meat), overnight stay in the youth hostel, visit to the abattoir, visit to the diagnostic facility at the Epidemiology Centre of the Hanover University of Veterinary Medicine Foundation, arrival in Hanover approx. 6 pm.*

**Blockveranstaltung** 25.-26.9.2024

**Please meet punctually at 6.00 a.m. in front of the entrance to the clinic for small cloven-hoofed animals for departure. A shower will be taken in the first farm, protective clothing will be provided. Please bring a towel for your stay in the youth hostel.**

*North-West Germany in the vicinity of the Field Centre for Epidemiology*

Registration: **E-Mail** ([isabel.hennig-pauka@tiho-hannover.de](mailto:isabel.hennig-pauka@tiho-hannover.de))

1222

**PhCasus cases for the anatomical dissection exercises III**

*Pfarrer, Brehm, Engelke, Hollenbach, Gniesmer, Pankoke*

for the **3rd** semester **14 hours** **75%** max. **350 participants** Subject area: **Preclinical studies**

Focus: **Pet diseases, Farm animals****Cattle, Farm animals****Clawed animals**

*Processing of casus cases accompanying and deepening the contents of the Anatomical Dissection Exercises III (incl. situs course)*

**weekly event** Wed 14-16 h Start: 07.10.2024

**The respective casus cases ([www.tiho.casus.net](http://www.tiho.casus.net)) will be available for 1 week in parallel to the topics of the Anatomy III course (incl. situs course).**



From 75% of the casus cases processed, the actual number of cases processed is counted as hours (the cases must be fully processed, with a pass mark of 50%. Minimum processing time per case: 20 minutes).

Registration: **online**

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1223 PhSeminar : Special anatomy of the limbs



*Pfarrer, Engelke, Hollenbach, Gniesmer, Pankoke*

**S** for the **1st/3rd** semester **14 hours** max. **30 participants** Subject area: **Pre-clinic**  
Focus: **Pet diseases, Farm animalsCattle, Farm animalsClawed animals**

*Clinically applied anatomy of selected structures of the limbs of various animal species, including joint punctures and accesses, with practical exercises, partly together with clinicians.*

**fortnightly event** Wed 14-16 h Start:  
16.10.2024

**At least 5 appointments must be attended in order to receive credit for the hours actually worked!**  
**Please bring your own gown and gloves!**

*Dissection Room East, Anatomical Institute*

Registration: **online**

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1224 TAnatomy never leave me - Clinical-applied anatomy in horses and cattle



*Hollenbach, Engelke, Gaude, Heun*

**GV** for the **5th/7th** semester **20 hours** max. **20 participants**  
Speciality: **individual animals, farm animals, diagnostics, preclinical focus: equine diseases, farm animals, cattle**

*Review of the anatomical basics of selected organ systems in horses and cattle (heart, respiratory organs, digestive system, toe end organ), followed by practical implementation using diagnostic methods on live animals in the equine or cattle clinic, including discussion of relevant clinical pictures.*

**Block event** Wed 14-16 h  
16.10.2024 Info event

23.10.2024

30.10.2024

06.11.2024

13.11.2024

11.12.2024

18.12.2024

08.01.2025

15.01.2025

22.01.2025

Start: 16.10.2024

**From 23 October 2024, please bring a coat and gloves as well as appropriate protective equipment!**

**At least 7 appointments must be attended in order to receive credit for the hours actually worked.**

*16.10.2024 Info event in the studio of the Anatomical Institute!*

*From 23.10.2024 Dissecting rooms Anatomical Institute, Equine Clinic, Cattle Clinic*

Registration: **online**

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1225 Ph, T Anatomy of reptiles



*Brehm, Schnapper-Isl, Hetterich, Keil*

**GV** for the **3rd/5th/7th** semester **16 hours** max. **20 participants**  
Speciality: **individual animals, preclinical focus: pet diseases**

*Macroscopic and microscopic anatomy of large reptile groups, introduction to practice*

**Block event** Wed 14:15-17:30 16.10.2024 14.15  
to 17.30

23.10.2024 2.15 pm to 5.30 pm

30.10.2024 2.15 pm to 5.30 pm

06.11.2024 2.15 pm to 5.00 pm

Start: 16.10.2024

**The event takes place in presence.**

*Dissecting room West and lecture theatre of the Anatomical Institute*

Registration: **online**

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1241 TWcience & (pain) research in veterinary medicine



*Stoffregen, Gericke, Kästner, Kreienbrock, Nicolaisen*

for the **3rd/5th/7th** semester **14 hours** **100%** max. **30 participants**

Speciality: **individual animals, farm animals, diagnostics, research, other**

Focus: **Small animal diseases, Farm animalsClawed animals, Farm animalsOther, Animal welfare**

*What does science & (pain) research mean in veterinary medicine?*

*In the seminar, the central question will be discussed on the basis of theoretical and practical cases, i.e. short theoretical contributions will be compared with results and experiences from projects on pain assessment in animals.*

*The seminar is organised according to the principle of "research-based learning & teaching", so that each teaching unit goes through a step in the research process (on a small scale).*

*Topics of the research projects presented include (probably!) Grimace scales, pain acoustics,*



*Nociception and evidence of pain scales.*

*On completion, participants will be able to answer the key question of the course and develop the outlines of a research question, structure and evaluate a research process. In order to achieve these goals, one teaching unit is scheduled solely for exercises (or application of knowledge).*

*The course is intended to sensitise those interested in practice to how research and practice can be combined and how important the (systematic) work and (data) documentation of curative practice is for future (pain) research in veterinary medicine.*

*No specific prior knowledge is required to take part - just the motivation to think on the spot and actively participate.*

*One missed lesson will be accepted; other arrangements will be agreed if necessary. If interested, individual students can give a short presentation in the last teaching unit (preparation and presentation of material) and thus receive additional WP hours depending on the effort involved.*

*Dates & lecturers:*

- 16.10 Start / Philosophy of Science (IBEI)
- 23.10 Familiarisation with the field (practical part: Mrs Kästner)
- 30.10 Methods & study design (practice part: tbd.)
- 06.11 Project implementation / data collection (practical part: Mr Nicolaisen)
- 13.11 / 20.11 "Workshop" here only exercises are carried out (students)
- 13.11 / 20.11 Data analysis (practical part: tbd.)
- 27.11 Evaluation / Evidence (IBEI)

**weekly event** Wed 16:15-17:45 Start: 16.10.2024

TiHo-Tower, 8th floor, seminar room 829

Registration: **online**

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## 1244 TReading and evaluating scientific publications using the example of pain scoring



Gericke, Nicolaisen, Stoffregen

**S** for the **5th/7th** semester **10 hours** **100%** max. **8 participants**

Speciality: **individual animals, farm animals, diagnostics, research, other**

Focus: **Small animal diseases, equine diseases, farm animalsCattle, farm animalsClawed animals, farm animalsPoultry, farm animalsOther, animal welfare**

*How do you actually read and evaluate scientific publications? This question*

*is relevant for many and not so easy to answer.*

*The answer to this question will be developed in this seminar with the help of the practice-orientated teaching/learning method "Problem-Based-Learning":*

*Dates & procedure*

1. Presence, 25.10. | 14.15-15:45: Problem definition and examples
2. Online (after coordination): Feedback on the procedure (in the group)
3. Online (after coordination): Direct consultation Results (per publication / group)
4. Presence, 27 Nov | 16:15-17:45: Presentation of results (possibly in the WP "What is science and (pain) research").

*Note: the course can be combined with the WP "What is science and (pain) research?"*

**Block event** see dates in the description.

**Please note the dates in the description.**

IBEI, TiHo Tower, Sem- Room 829, 8th

floor. Registration: **online**

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## 1280Ph Practically relevant examples for in-depth study of "Inorganic and bioinorganic chemistryin veterinary medicine"



Buchholz

**S** for the **1st** semester **12 hours** max. **250 participants** Subject area: **Pre-clinic**

*The compulsory elective course is intended to deepen the theoretical knowledge from both the lectures and the seminars and to establish the veterinary relevance and practical relevance of the chemical knowledge.*

**Block event** Wed 16:00-17:30

23.10., 06.11., 20.11., 04.12., 18.12.2024, 08.01.2025

Start: 23.10.2024

**Crediting scheme**

**(Number of attendances: credited hours)**

**1 times: 2 h**

**2 times: 4 h**

**3 times: 6 h**

**4 times: 8 h**

**5 times: 10 h**

**6 times: 12 h**

**You will receive information on the procedure by e-mail.**

*Online via MS Teams.*

Registration: **takes place during enrolment**



1281	<p><b>TA</b>Alternatives to animal testing: corrosive or not? Veterinarians in research</p> <p>Seeger</p> <p>V/Ü for the 3rd/5th/7th semester 4 hours <b>100%</b> max. 10 participants Subject area: Research</p> <p><i>How can the skin corrosive effect of a substance, i.e. the potential to corrode the skin, be characterised without animal testing? In addition to testing various substances on a human reconstructed epithelium, theoretical principles will be taught and together we will work out how such in vitro tests can be interpreted. This event is aimed at all prospective veterinarians who are also considering career opportunities in industry or research.</i></p> <p><b>Block event</b> 11.12.2024, 14.15 - 18 h <b>Gowns are provided.</b></p> <p>Meeting in the former Institute for Food Toxicology, BiDamm, Building 123, Library, 2nd floor</p> <p>Registration: <b>online</b></p>	
1282 T	<p><b>Cell culture techniques as alternative and complementary methods to animal experiments</b> Veterinarians in research</p> <p>Benz, Breves, Hiebl, Lepenies, Meissner, Meurer, Meyer-Sievers Seeger, Stern, von Köckritz-Blickwede</p> <p>S/Ü for the 3rd/5th/7th semester 18 hours <b>75%</b> max. 6 participants Subject area: Research</p> <p>Focus: <b>Animal welfare</b></p> <p><i>The aim of this event is to familiarise students with cell culture methods during their studies and thus highlight possible career paths for future veterinarians. Research at universities and in industry is increasingly focussing on the animal-free elucidation of molecular mechanisms in the cell. TiHo research groups working with cell culture methods will be presenting various areas: Basics of cell culture, physiological oxygen conditions in cell culture, air-liquid-interface culture as an in vitro model for lung infections, in vitro methods in immunology, membrane transport in the intestine, differentiation of stem cells and precision cut organ slices. You will be taught fundamental and pioneering techniques in theory and practice.</i></p> <p><i>Where it is not possible to completely replace animal experiments, the conditions of the experiments are increasingly being optimised in such a way that the stress on the laboratory animals used is as low as possible. This aspect is also presented.</i></p> <p><i>This elective course is therefore of interest to anyone who would like to learn about career opportunities outside of curative work in theory and practice.</i></p> <p><b>Weekly event</b> Wed 14:15-15:45 Start: 16.10.2024 <b>The first event (16 October) will take place in the Food Toxicology Department (BiDamm, Building 123, former Institute of Food Toxicology, Library, 2nd floor):</b> <b>Seeger - Introduction and differentiation of stem cells</b></p> <p><b>You can find the schedule of events on Studis.</b></p> <p><i>At the participating institutes (exact details can be found in the event schedule)</i></p> <p>Registration: <b>online</b></p>	
1301	<p><b>T</b>Wild and hunting and delicious?</p> <p>Dr Sönke Steffens, Dr Kurt Warlies, Dr Nadine Sudhaus-Jörn</p> <p>S for the 1st/3rd/5th/7th semester 4 hours <b>100%</b> max. 12 participants</p> <p>Speciality: <b>Individual animals, farm animals, foodstuffs</b></p> <p><i>We would like to discuss hunting, game hygiene and the associated food safety with you</i></p> <p><b>Block event</b> Wednesday, 11 December 2024, 2.15 p.m. to approx. 5.30 p.m. <b>Please understand that the event can only take place with a minimum of three students.</b></p> <p><i>Library Institute for Food Quality and Safety, Bischofsholer Damm 15, Building No. 115, 3rd floor</i></p> <p>Registration: <b>online</b></p>	
1303	<p><b>Animal welfare scandals- Current animal welfare in slaughterhouses - Tasks and duties of veterinarians and veterinarians during ante-mortem and post-mortem inspections</b></p> <p>Prof Bernhard Nowak, Prof Jörg Hartung, Dr Nadine Sudhaus-Jörn</p> <p>S for the 5th/7th semester 6 hours max. 12 participants Subject area: <b>Farm animals, foodstuffs</b></p> <p><i>Animal welfare problems in slaughterhouses repeatedly lead to scandals, with official veterinarians also coming under public scrutiny. So what must the official veterinarian observe and, if necessary, penalise during ante-mortem and post-mortem inspections so that such situations no longer occur in the future? The topic will be developed using case studies.</i></p> <p><b>Block event</b> Wednesday, 27 November 2024, 2.15 p.m. to approx. 4 p.m. Wednesday, 04.12.2024, 2.15 pm to approx. 4 pm and Wednesday, 22 January 2025, 2.15 p.m. to approx. 4 p.m. <b>Please understand that the course can only be organised with a minimum of three students. It is possible to obtain additional WP hours by voluntarily working on a case study.</b></p> <p><i>Bünteweg 2, 2nd floor (room number will be announced shortly)</i></p> <p>Registration: <b>online</b></p>	



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1306 General How do you write a report on a food product?



Cain

**S/Ü** for the **5th/7th** semester **6 hours** **100%** max. **8 participants**

Speciality: **Food, Other**

*In the introductory event, you will learn the basics of the food report. By the second session, you will be able to write your own report. We will discuss the resulting reports together in the second session and provide feedback.*

*Minimum number of participants: 3 students*

**Block event** 30.10.2024, 14-16 h

13.11.2024, 14-16 h

*Library of the LMQS (Richard Götze Haus), 3rd floor*

Registration: **online**

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1308 General merchandise knowledge - food made from insects



Grabowski, Hirnet

**Exercise** for the **1st/3rd/5th/7th** semester **12 hours** **75%** max. **12 participants** Subject area: **Food**

*Foods containing insects are authorised as novel foods on the European market. Specialist veterinarians for food safety will also monitor and assess these.*

*What challenges does this pose for food monitoring?*

*On 4 dates, an overview of insect-containing foods is given and these are tasted (if desired).*

**Block event** Wed 14-17 h

Dates: 30.10.24, 20.11.24, 18.12.24 and 22.1.2025

The event takes place on 4 dates, 3 of which must be attended. Start: 30.10.24

**Please note that an allergy to crustaceans or house dust mites can lead to a cross-reaction with insects.**

*LMQS building 115, library on the 3rd floor*

Registration: **online**

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1309 T

**Molecular biological rapid detection methods for food monitoring**



**How can I detect counterfeit food in just a few minutes?**

Abdulmawjood, Kreitlow

**S/Ü** for the **5th/7th** semester **4 hours** **100%** max. **4 participants**

Speciality: **Food, diagnostics, research**

*The identification of mislabelled or microbially questionable foodstuffs is the task of food monitoring. Molecular biological methods for animal species differentiation allow quick conclusions to be drawn about the animal species used for a meat product. Over 600 samples are tested by LAVES every year to ensure that they are correctly labelled. PCR analyses are used as standard, but also new methods such as loop-mediated isothermal amplification (LAMP). Different methods will be presented and demonstrated during the course. The event is divided into a theory course (1 hour) and a practical course (3 hours). In the practical part, DNA isolation and LAMP protocols are worked on and carried out independently by the students using the latest standards.*

**Block event** 20.11.2024, 13-17 h

**If you have been allocated the WP, please then contact**  
**amir.abdulmawjood@tiho-hannover.de**

*Institute for Food Quality and Safety,*

*In the library on the 3rd floor of the LMQS, building 115 (Bischofsholer Damm 15).*

Registration: **online**

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1310 General insights into the Sensomic...



**...what is that? And what is food pairing? Sensomic as a limitless future or... ?**

Siekman

**V** for the **5th/7th** semester **2 hours** **100%** max. **16 participants** Subject area: **Food**

*The molecular composition of our foods is very different and can lead to very unique overall results in "new" combinations. Why do asparagus and butter harmonise so well? How can the knowledge of "sensomics" be utilised in the creation of new dishes? Is this approach already being used and - are there perhaps limits that can be discussed in the group?*

**Block event** Wednesday, 04 December 2024, 2.15 - 3.45 pm

*Library in the LMQS (3rd floor), Richard-Götze Haus (access via the lift centrally in the stairwell)*

Registration: **online**

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1311 General sensory technology - the use of our senses



**Application-related insights and background information on sensory analysis**

Siekman

**S** for the **5th/7th** semester **2 hours** **100%** max. **16 participants** Subject area: **Food**

*We all see the same thing when we look at something, don't we? Or do we? Does the "training" of senses make any "sense" at all?*



*Insights into the functioning of our senses in connection with their use as a "repeatable measuring instrument" in a sensory analysis of food.*

*Theory part, group discussion and short practical part with consumption.*

**Block event** 20 November 2024, Wednesday, 2.15 - 3.45 pm

**Please note - food is served that contains allergens and ingredients of animal origin.**

*Library in the LMQS (Richard-Götze-Haus, 3rd floor, access via the lift centrally in the stairwell of the building)*

Registration: **online**

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### 1312 General sensory examinations - learning by doing!



*Siekmann*

**Ü** for the 5th/7th semester **2 hours** **100%** max. **16 participants** Subject area: **Food**

*One-off block event in which various sensory testing methods are discussed in the group.*

*The main topics of the event are the development of individual tests, discussion of important peripheral aspects, personal experimentation and a general, relaxed approach to food sensory analysis.*

*Please note: various foods are served for tasting, which may contain allergens as well as ingredients of animal origin.*

**Block event** Wednesday, 27 November 2024, 2.15 pm to approx. 4.00 pm

**Bring a clean (!) white coat, pen and sheet of paper if necessary.**

**Please do not appear very hungry or overly full. Please refrain from wearing fresh perfume, newly applied hand cream and the smell of smoke on your clothes.**

**Coffee abstinence for 1 hour before the start of the event.**

*LMQS (Richard-Götze-Haus), library 3rd floor (access via the lift centrally in the stairwell).*

Registration: **online**

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1420 T

### Clinical-pathological case demonstration (functional pathology)



**for small animals, pets, pigs, horses and cattle**

**Joint event organised by the Institute of Pathology and the clinics for small animals, pets, reptiles, ornamental and wild birds, small cloven-hoofed animals, horses and cattle**

*Beineke, Wohlsein, Puff, Gerhauser, Leitzen, Stoff, Hülskötter, de le Roi, Beythien, Störk; Tipold, Kästner, Mischke, Kramer; Mathes; von Altrock; Feige, Sieme; Heppelmann*

**GV** for the 5th/7th semester **28 hours** **100%** max. **98 participants**

Speciality: **individual animals, farm animals, aetiology, diagnostics, research**

Focus: **small animal diseases, equine diseases, pet diseases, farm animalscattle, farm animalscloven-hoofed animals**

*Cross-disciplinary discussions of the clinic, pathological-anatomical findings, differential diagnoses, pathogenesis and therapy with regard to dogs, cats, horses, cattle, pigs and pets.*

*The aim of the event is to work together with the various clinics to retrospectively analyse the course of a disease based on clinical, pathological and anatomical findings and a joint epicritical assessment. Clinical-therapeutic as well as aetiological and morphological differential diagnoses will be presented and critically discussed.*

**weekly event** Wed 17:00-18:30 Start: 09.10.2024

**Prerequisite for awarding a certificate: Regular attendance (100%); minimum number of participants 7;**

*Institute of Pathology, Demonstration Hall*

Registration: **online**

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1421 T

### Pet diseases



**Selected diseases of rabbits, guinea pigs, hamsters, chinchillas and rats**

*well-being, shuddering*

**V** for the 5th/7th semester **14 hours** **100%** max. **100 participants**

Speciality: **Individual animals, diagnostics, research** Focus: **Pet diseases**

*Clinic, patho-morphological findings and pathogenesis of selected pet diseases*

**weekly event** Wed 14:15-15:00 Start: 09.10.2024

**Prerequisite for awarding a certificate: Regular participation in all courses (100%). Minimum number of participants: 5**

*Institute of Pathology, 1st floor, small course room (course room 2)*

Registration: **online**

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1422

### Selected topics in specialised pathology of domestic animals (14:15-15:00)



**Assessment of current dissection cases**

**Same content as WP 1424, only different times**

*Beineke, Wohlsein, Gerhauser, Puff, Schaudien, Stoff, Hülskötter, Leitzen, de le Roi, Beythien*

**S** for the 5th/7th semester **14 hours** **100%** max. **14 participants**

Speciality: **individual animals, farm animals, diagnostics, focus: small animal diseases,**



**Horse diseases, pet diseases, farm animalsCattle, farm animalsClawed animals**

*The aim of the course is to use selected cases from the sectional diagnostics of the Institute of Pathology to intensively demonstrate the problems of interpreting findings and making a diagnosis, as well as their differential diagnostic and pathogenetic consideration.*

**weekly event** Wed 14:15-15:00 Start: 09.10.2024

**Prerequisite for the award of a certificate: Regular participation in all courses (100%). Minimum number of participants: 7**

*Institute of Pathology, section hall*

Registration: **online**

1424

**Selected topics in specialised pathology of domestic animals (15:00-15:45h)**



**Assessment of current dissection cases**

**Same content as WP 1422, only different times**

*Beineke, Wohlsein, Gerhauser, Puff, Schaudien, Stoff, Hülskötter, Leitzen, de le Roi, Beythien*

**S** for the 5th/7th semester **14 hours** **100%** max. **14 participants**

Speciality: **individual animals, farm animals, diagnostics** Focus: **small animal diseases, equine diseases, pet animal diseases, farm animalsCattle, farm animalsClawed animals**

*The aim of the course is to use selected cases from the sectional diagnostics of the Institute of Pathology to intensively demonstrate the problems of interpreting findings and making a diagnosis, as well as their differential diagnostic and pathogenetic consideration.*

**weekly event** Wed 15:00-15:45 Start: 09.10.2024

**Prerequisite for the award of a certificate: Regular participation in all courses (100%). Minimum number of participants: 7**

*Institute of Pathology, section hall*

Registration: **online**

1426 T  
medicine

**From chance observations to new diagnostic possibilities and therapeutic approaches in veterinary**



*Puff*

**S** for the 5th/7th semester **4 hours** **100%** max. **30 participants** Subject area: **Research**

*In the elective course offered, the importance of research for new diagnostic possibilities and therapeutic approaches in veterinary medicine will be discussed using specific examples in order to demonstrate the basis of evidence-based veterinary medicine.*

**Block event** 23.10.2024; 16:15-17:45

30.10.2024; 16:15-17:45

**Prerequisite for awarding a certificate: Regular attendance (100%); minimum number of participants 5;**

*Institute of Pathology, small course room (1st floor)*

Registration: **online**

1442 T

**Pharmacological-toxicological colloquium**



**Presentations on pharmacological and toxicological topics**

*Harting, Oltmanns, Meißner, Richter Assêncio, Feja*

**S** for the 5th/7th semester **14 hours** **75%** max. **50 participants** Subject area: **Etiology, research**

*Lectures on research-related topics in pharmacology and toxicology. Lecturers are employees and doctoral students of the Pharmacol. Institute as well as guests. Aim: Insight into the research and typical questions of doctoral, PhD and Master's theses.*

**fortnightly event** Wed 16-18 h

16.10., 30.10., 13.11., 27.11., 11.12., 08.01., 22.01.

Start: 16.10.24

*Lecture theatre Institute of Pharmacology (ground floor)*

Registration: **online**

1443

**Tinsights into the development of pharmaceuticals**



**From the molecular target to the finished drug**

*Rundfeldt*

**S** for the 5th/7th semester **12 hours** **100%** max. **20 participants** Subject area: **Research**

*Medicinal products are one of the pillars of the veterinary profession. But where do our medicines come from, how are new medicines found and developed and what distinguishes them from medical devices, cosmetics or food supplements, for example? The entire development process is illustrated using examples, starting with the generation of ideas for new medicines, the identification of new active ingredients in screening, patenting, characterisation and optimisation of active ingredients, through to testing safety and tolerability in clinical trials and approval. No prior knowledge is required.*

*Please contact me with any questions/post-registrations via [chris.rundfeldt\(at\)t-online.de](mailto:chris.rundfeldt(at)t-online.de) or 01709053070*

**Block course** Three blocks of 2 double hours each: Sat, 9.11., Sat, 16.11., Sat, 23.11., each 14.15-17:15, possibly plus break.

**Dates: see above.**

*Event as an interactive MS Teams live event without recording option.*

Registration: **online**



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#### 1483 General occupational safety in veterinary medicine



Maren von Köckritz-Blickwede, Laura Sadewater, Armina Richter, Armin Dinter, Andreas Gassner, Michael Glüer

**GV** for the **1st/3rd/5th/7th/9th** semester **14 hours** **75%** max. **12 participants**

Speciality: **Etiology, Diagnostics, Research, Preclinical, Other**

*Veterinarians have a relatively high risk of accidents at work, whether in the clinic, in the diagnostics laboratory or in research. Veterinarians are also at particular risk of contracting infectious diseases known as zoonoses, i.e. diseases that can be transmitted from humans to animals and vice versa. The occupational risks of accidents and illnesses in clinics, veterinary practices and laboratories can be reduced through systematic prevention. Only those who know the specific risks and exposures can minimise them. Safety and health during studies, at work and in clinics are the areas that we want to focus on here.*

*The compulsory elective course is divided into three sections: "Learn theory - apply it in practice - deepen it cooperatively":*

*1. Individual processing of a Moodle-based online module on the topic of occupational safety. The following topics are covered:*

- Importance of occupational health and safety for veterinary medicine
- Organisation of occupational health and safety in the practice and laboratory
- Instruction in the creation of risk assessments
- Basics of the Biological Agents Ordinance and infection protection
- Basics of the Hazardous Substances Ordinance
- Organisation of safety and health

*2. Hands-on workshops in small groups to practise specific protective measures in everyday working life in small groups. The organisation of occupational health and safety in practice and in the laboratory is to be practised in small groups using practical examples.*

*3. Playful online workshop entitled: "Identifying solutions together in the area of occupational safety" together with employees from the various departments of the University of Veterinary Medicine Hannover Foundation (TiHo). Hazardous situations are discussed, analysed and evaluated in games and simulations.*

**Block event** Preliminary discussion: by arrangement

**Preliminary discussion:** by

**arrangement** Seminar room RIZ FI

or MS Teams Registration: **online**

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#### 1484 General relevance of animal experiments in infection research and their presentation to the public



von Köckritz-Blickwede, Meyer-Sievers

**S** for the **3rd/5th/7th** semester **14 hours** **75%** max. **6 participants** Subject area: **Research**

Focus: **Infectious diseases, animal welfare**

*How relevant are animal experiments in today's infection research?*

*How can they still be justified in public? Are there sensible alternatives?*

*At least 3 participants*

*Max. 6 participants*

*From 5th semester*

*2 attendance dates (dates by arrangement)*

*1. Meeting at the beginning of the semester (RIZ seminar room): Presentation of the RIZ, guided tour through the RIZ, distribution of topics for own research*

*- Time for research while working from home -*

*2. Date at the end of the semester (seminar room RIZ): Presentation of the researched points on the respective topics in a 20-minute lecture followed by a discussion*

**Block event** by arrangement

**RIZ**

Registration: **online**

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#### 1504 Ph, T Handling of experimental beagles in theory and practice



Körber, Hiebl, Goericke-Pesch, Länger, Bohnet

**S/Ü** for the **1st/3rd/5th/7th** semester **12 hours** **100%** max. **35 participants**

Specialist area: **Individual animals** Focus: **Animal welfare**

*Theory and practice of keeping test dogs Dog behaviour*

*Contents of the certificate of competence*

**weekly event** Dates after consultation (block seminar with weekend possible) **Information event on Wednesday (to be announced) in the lecture theatre of the Reproductive Medicine Unit**

*Online and Reproductive Medicine Unit, Bünteweg 15*

Registration: **E-Mail (reproklt@tiho-hannover.de)**

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#### 1505 T

#### Reproductive medicine and biotechnology - specialising in farm animals



**Due to demand, renewed offer as in summer semester 2024**

*Lecturers from the Virtual Centre for Reproductive Medicine*

**Ü** for the **7th** semester **21 hours** **100%** max. **8 participants** Subject area: **Farm animals**

*Applied reproductive medicine and biotechnology in farm animals (cross-species); practical*



*Exercises and excursions*

**weekly event** Wed 14-17 h Excursions: 14:00 - 17:00 h

Start: 09.10.2024

**Dates and venues see Moodle Enquiries to Prof.**

**Waberski**

**e-mail: dagmar.waberski@tiho-hannover.de**

*Venues:*

*TiHo Hannover FLI*

*Mariensee Celle*

*State Stud Master*

*Cattle Verden*

Registration: **online**

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1506 T

### Small animal reproduction in clinic and research



*Goericke-Pesch, Körber*

**Ü** for the **5th/7th** semester **28 hours** max. **5 participants** Subject area: **Other**

*Clinical cases in small animal reproduction, literature club, possibly laboratory work and a small scientific project to work on under supervision*

**weekly event** Wed 14-16 h Start: 09.10.2024

*Reproductive medicine unit, small animal department, Bünteweg 15*

Registration: **online**

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1507 T

### Stud medicine



*Köhne, Sieme, Tönnißen*

**Ü** for the **7th** semester **28 hours** **100%** max. **18 participants** Subject area: **Individual animals, farm animals**  
Focus: **Equine diseases**

- *CASUS case studies from practice (video sequences from the perspective of specialised veterinarians) on topics including fertility management, birth, heat suppression in sport mares, etc.)*
- *Development of common diagnostic and therapeutic methods in equine reproductive medicine*
- *Learning important diagnostic and therapeutic methods in equine reproductive medicine on the simulator and on the horse*

*Learning objectives:*

- *Independent solving of clinical cases*
- *Integration of current scientific findings into clinical decision-making*
- *Learning clinical techniques on the simulator and on animals*
- *Strengthening professional communication skills The event will be evaluated.*

**Weekly event** Wed 16-17:30 Start: 09.10.2024

*Lecture theatre of the Reproductive Medicine Unit of the clinics or Clinical Skills Lab*

Registration: **online**

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1508 T

### Reproductive medicine operations



*Goericke-Pesch, Kramer*

**S/Ü** for the **7th** semester **14 hours** **100%** max. **30 participants** Subject area: **Other**

*The aim is to familiarise the students with common reproductive medical operations on the model (caesarean section, castration bitch/male)*

**weekly event** Wed 14-15:30 2 theory sessions  
via teams

4 practice dates

Start: 09.10.2024

**The exact dates will be communicated later.**

**1. Theory**

**2. Theory**

**3. Neutering male dog/male cat**

**4. Castration bitch**

**5. Castration cat**

**6. Caesarean section bitch**

*Anatomy dissecting room, Bischofholer Damm 15*

Registration: **online**

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1510

### TControl and assessment of drinking water supply



*Lingens, Visscher*

**GV** for the **3rd/5th/7th** semester **2 hours** **100%** max. **250 participants**  
Speciality: **Individual animals, farm animals**

*A sufficient and suitable supply of water is essential for our animals. What needs to be considered, how can the supply be ensured and what needs to be considered analytically?*

**Block event** provided from 09.10.2024 until 23.01.2025


**Online seminar (TiHoMoodle): asynchronous**

*online*



Registration: **online**

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1511 T      **Ration design for horses** 

*Hartung, Schubert, Visscher*

**GV** for the **5th/7th/9th** semester **2 hours** **100%** max. **16 participants** Subject area: **Individual animals**


*Fundamentals of ration design for horses and practical ration design for different age and utilisation groups*

**Block event** Wed 14:15-15:45 16.10.2024

*Lecture theatre Animal nutrition*

Registration: **online**

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1512 T      **Feeding-related disorders of gastrointestinal health and dietetics in horses** 

*Hartung, Schubert, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants** Subject area: **Individual animals**

Focus: **Nutritional physiology**


*Fundamentals of feed-related gastrointestinal disorders in horses and corresponding dietary measures*

**Block event** Wed 14:15-15:45 23.10.2024

*Lecture theatre Animal nutrition*

Registration: **online**

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1513 T      **Dr Feed** 

**Dr-Feed (Digit-Real-Feed): Practical animal nutrition offered digitally**

*Hankel, Hartung, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants**

Speciality: **Individual animals, farm animals, aetiology** Focus: **Nutritional physiology**

*In addition to general animal nutrition, special animal nutrition and feed law, feed science is one of the four pillars that are examined in the exam at the end of the 7th semester. As part of the Innovation plus project (2022/23), Module: Dr-Feed (Digit-Real-Feed): Practical animal nutrition offered digitally, a catalogue of feed materials was created. This can also be used to prepare for the examination, which is conducted in an electronic written examination format.*


*In addition, a self-contained self-learning station has now been set up for students at the University of Veterinary Medicine in the Institute of Animal Nutrition. At this station, the feed catalogue created as part of the project is offered digitally and at the same time various of the feeds contained therein are presented in real life. You will receive an introduction to this station as part of the compulsory elective. Questions about the catalogue and the feedstuffs can also be answered.*

**Block event** Wed 14:15-15:45 30.10.2024

*Lecture theatre Animal nutrition*

Registration: **online**

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1514 T      **Feed-related disorders and dietetics in small ruminants** 

*Lohkamp, Rath, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants**

Speciality: **farm animals, aetiology, diagnostics** Focus: **farm animals, cloven-hoofed animals, nutritional physiology, infectious diseases, animal welfare**


*Nutritional disorders and dietary measures - What is relevant for practice?*

**Block event** Wed 14:15-15:45 06.11.2024

*Lecture theatre Animal nutrition*

Registration: **online**

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1515      **TFeeding-related disorders and dietetics in cattle** 


*Schwennen, Spieß, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants** Subject area: **Livestock Nutritional disorders and dietary measures - What is relevant for practice?** **Block course** Wed 14:15-15:45

*Lecture theatre Animal nutrition*

Registration: **online**

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1516      **TFeeding concepts regionally and sustainably for pigs** 

*Gickel, Hankel, Rosengart, Schwennen, Sehlen, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants** Subject area: **Livestock, other**

Focus: **Nutritional physiology**



*Sustainability and its assessment are becoming increasingly important for animal husbandry in line with the Sustainable Development Goals. We show the latest assessment options that we use in projects.*

**Block event** Wed 14:15-15:45 20.11.2024

Lecture theatre Animal nutrition

Registration: **online**

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1517

**TFeeding-related disorders and dietetics in pigs**



*Rosengart, Schwennen, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants** Subject area: **Farm animals, aetiology**  
Focus: **farm animals, cloven-hoofed animals, nutritional physiology, animal welfare**

*Pigs are fed a varied diet. The type of feed intake and preference behaviour are different by nature. Utilisation brings further changes in feeding. Accordingly, the topic is complex. Interesting problems of feeding in practice are presented (case reports) and possibilities for intervention.*

**Block event** 27.11.2024 Lecture

hall Animal nutrition Registration:

**online**

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1518 T

**"Barfen" - one option among many for feeding dogs or rather a "world view"**



*Hankel, Ullrich, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **250 participants**  
Speciality: **Individual animals, aetiology**

*"Barfen" is the trend of the moment. What does this trend entail? What needs to be considered?*

**Block event** provided from 04.12.2024 to 23.01.2024

**Online seminar (TiHoMoodle): asynchronous**

online

Registration: **online**

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1519 T

**Challenges and possibilities of ration design for dogs**



*Hankel, Ullrich, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants**  
Speciality: **Individual animals, aetiology**

*What needs to be considered when calculating a ration, especially if the dog is ill? We address the most important questions and provide insights based on practical examples of what is possible and what is being done today.*

**Block event** Wed 14:15-15:45 11.12.2024

Lecture theatre Animal nutrition

Registration: **online**

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1520

**TEnutritional disorders and dietetics in dogs and cats**



*Hankel, Ullrich, Visscher*

**GV** for the **5th/7th** semester **2 hours** **100%** max. **16 participants**  
Speciality: **individual animals, aetiology** Focus: **small animal diseases, nutritional physiology**

*Nutritional disorders and dietary measures - What is relevant for practice?*

**Block event** Wed 16:15-17:45 11.12.2024

Lecture theatre Animal nutrition

Registration: **online**

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1521 T

**Ration design and ration calculation in zoo animal feeding**



*Guest lecturer, Spieß, Visscher*

**GV** for the **5th/7th/9th** semester **2 hours** **100%** max. **250 participants** Subject area: **Individual animals**

*Together with Dr Marco Roller, zoo vet from the Karlsruhe Zoological Garden, various rations for zoo animals will be analysed and discussed at this event. Creating a complete ration for a wide variety of species always poses certain challenges, requiring creativity and sensitivity on the part of the animal nutritionist.*







**Block event** Wed 14:15-15:45 18.12.2024

**Online LIVE seminar: provided synchronously on 18.12.2024 from 14:15 to 15:45 via Microsoft Teams**

online live

Registration: **online**



1522	<b>TMixed feed production and design based on a practical example</b>  <p><i>Hartung, Lingens</i></p> <p><b>GV</b> for the <b>5th/7th</b> semester <b>6 hours</b> <b>100%</b> max. <b>10 participants</b> Subject area: <b>Farm animals</b></p> <p><i>Using the teaching concept of "problem-orientated learning - POL", the production process of a compound feed using the example of laying hens is to be worked out using the material provided and finally a feed is to be designed. The course includes two sessions in the lecture theatre with a self-study phase in between.</i></p> <p><b>Block event</b> Wed 14:15-15:45 08.01. + 15.01.2025</p> <p><i>Lecture theatre Animal nutrition</i></p> <p>Registration: <b>online</b></p>
1523	<b>Insects - what do they need and what can we use them for?</b>  <p><i>Abd El-Wahab, Fazel Dehkordi, Lingens, Lohkamp, Rath, Schwennen, Visscher</i></p> <p><b>GV</b> for the <b>5th/7th</b> semester <b>2 hours</b> <b>100%</b> max. <b>16 participants</b></p> <p>Speciality: <b>Livestock, aetiology, food, other</b> Focus: <b>Nutritional physiology</b></p> <p><i>Basic principles of feeding different insect species and insight into own research projects on insects</i></p> <p><b>Block event</b> Wed 16:15-17:45 15.01.2025</p> <p><i>Lecture theatre Animal nutrition</i></p> <p>Registration: <b>online</b></p>
1524	<b>TFeeding concepts for rabbits as livestock or hobby animals: More than different!</b>  <p><i>Guest lecturer, Lohkamp, Visscher</i></p> <p><b>GV</b> for the <b>5th/7th</b> semester <b>2 hours</b> <b>100%</b> max. <b>250 participants</b></p> <p>Speciality: <b>Individual animals, farm animals, aetiology</b></p> <p><i>Depending on the type of housing (indoors or outdoors) and the requirements and experience of the pet owner, different feeding concepts are possible for rabbits, including a variety of industrially produced compound feeds. Using examples, trends will be shown and existing concepts critically assessed. Special problems and diseases in weaned young rabbits will also be presented from a veterinary/clinical perspective in the context of feeding and husbandry.</i></p> <p><b>Block event</b> Wed 14:15-15:45 22.01.2025</p> <p><b>Online-LIVE-Seminar: synchronously provided on 22.01.2025 from 14:15 to 15:45 via Microsoft Teams</b></p> <p><i>online</i></p> <p>Registration: <b>online</b></p>
1525	<b>TKeeping fish - what's different in Egypt</b>  <p><i>Abd El-Wahab, Visscher</i></p> <p><b>GV</b> for the <b>5th/7th</b> semester <b>2 hours</b> <b>100%</b> max. <b>16 participants</b></p> <p>Speciality: <b>farm animals, aetiology, food</b></p> <p><i>Visiting Professor Amr Abd El-Wahab gives an insight into the facets of fish farming and fish feeding.</i></p> <p><b>Block event</b> Wed 16:15-17:45 22.01.2025</p> <p><i>Lecture theatre Animal nutrition</i></p> <p>Registration: <b>online</b></p>
1527	<b>Ph, T Familiarisation with work in the context of experimental studies in farm animals and pets</b>  <p><i>Visscher</i></p> <p><b>GV</b> for the <b>3rd/5th/7th</b> semester <b>2 hours</b> max. <b>45 participants</b> Subject area: <b>Aetiology, pre-clinic</b></p> <p><i>This WP event is intended to give interested students the opportunity to gain an insight into the broad spectrum of applied research questions in animal nutrition at an early stage, i.e. during the course of their studies. Scientific staff will provide an insight into their daily project work. Interested persons are approached depending on the availability of questions.</i></p> <p><b>Block event</b> Dates by arrangement</p> <p><b>The WP hours are submitted at the end of the semester (31 March)</b></p> <p><i>Registrations with indication of main areas of interest via e-mail: sekretariat-tierernaehrung@tiho-hannover.de</i></p> <p>Registration: <b>online</b></p>
1530	<b>PhGrassland from an animal perspective</b>  <p><i>S. Aboling</i></p> <p><b>C</b> for the <b>1st</b> semester <b>2 hours</b> <b>100%</b> max. <b>50 participants</b> Subject area: <b>Preclinic</b></p> <p>Focus: <b>Nutritional physiology</b></p>



Instructional video with questions about the content

**Block course** The course is open from the beginning to the end of the semester.

Moodle

Registration: **online**

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1531 Ph **Fields from an animal perspective**



*S. Aboling*

**C** for the **1st semester 2 hours** **100%** max. **50 participants** Subject area: **Preclinic**

Focus: **Nutritional physiology**

*Educational video on the topic of fields with questions about the content*

**Block course** The course is open from the beginning to the end of the semester.

Moodle

Registration: **online**

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1532 Ph **Gardens from an animal perspective**



*S. Aboling*

**C** for the **1st semester 2 hours** **100%** max. **50 participants** Subject area: **Preclinic**

Focus: **Nutritional physiology**

*Educational video on the topic of gardening with questions about the content*

**Block course** The course is open from the beginning to the end of the semester.

Moodle

Registration: **online**

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1533 Ph **Parks from an animal perspective**



*S. Aboling*

**C** for the **1st semester 2 hours** **100%** max. **50 participants** Subject area: **Preclinic**

Focus: **Nutritional physiology**

*Educational video on the topic of parks with questions about the content*

**Block course** The course is open from the beginning to the end of the semester.

Moodle

Registration: **online**

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1534 Ph **Forests from an animal perspective**



*S. Aboling*

**C** for the **1st semester 2 hours** **100%** max. **50 participants** Subject area: **Preclinic**

*Educational video about the forest with questions about the content*

**Block course** The course is open from the beginning to the end of the semester.

Moodle

Registration: **online**

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1542 **Distance injection in domestic and wild animals**



*Voigt, Böer, Kästner*

**V/Ü** for the **9th semester 20 hours** **100%** max. **60 participants** Subject area: **Other**

*The aim of the course is to acquire expertise in the handling of cold gas-operated weapons (in accordance with §7 WaffG in conjunction with AWaffV §1-3)*

*The indications for immobilisation/distance injection in wild animals, zoo animals, farm animals and pets are found in a wide variety of areas (sale, purchase or transport of animals, treatment of individual animals, marking and tagging in research projects, capture of escaped animals, animal welfare, care of wildlife enclosures/parks, etc.).*

*If telescopic injection weapons are used for these applications rather than blowpipes, this requires not only veterinary expertise but also the relevant expertise in handling firearms. Apart from this expertise, veterinarians fulfil all legal requirements for the immobilisation/treatment of vertebrates due to their completed training.*

*The course is therefore primarily aimed at people who would like to fulfil the above fields of activity in their later professional life.*

**Contents:**

- 1) Lectures: Legislation on handling firearms, firearms law, other legislation, devices and projectiles (design/function), ballistics, safety and danger zones, sedatives and anaesthetics in immobilisation practice, preparation and follow-up of distance injection, storage, transport, risks, incidents, emergency measures, case scenarios of escaped pets and wild animals,*
- 2) Exercises: practical exercises on weapon and projectile technology/practical shooting exercises*
- 3) Examinations: The course concludes with a practical (P1) and written (P2) examination (P3) on firearms law and the handling of firearms. An oral examination only takes place if the examination performance in P2 does not meet the requirements.*



**Block course** 1st lectures+exercises 21.11.2024 to 01.12.2024 (modules T1-9, P1):

- 6 evenings 18:30~20:00: Thu 21 Nov, Mon 25 Nov, Tue 26 Nov, Wed 27.11., Thu 28.11., Fri 29.11.  
(all evenings as MS Teams ONLINE event)
- Sat, 30 Nov. 9-17h, PRESENCE, Lecture All, Group 1: Exercises & Exam P1
- Sun, 01.12. 9-15h, PRESENCE, Group2 : Exercises & exam P1

2. written exam (P2)

- Between 09.12. and 20.12.24, 2 appointments are offered in the evening during the week, 1 of which must be attended in PRESENCE.
- If you are not available during this time, please do NOT apply for a course place.
- The date and exact time will be agreed with the entire course at the beginning.

3. In previous courses, an additional oral examination was always held in presence. This procedure will be cancelled in WS 2024/25 and all relevant content will be tested in P1 and P2. If the examination performance is not sufficient, an oral re-examination will take place either in presence or online.

**1. The course is subject to a fee (100€)**

**2. Participation in all events is MANDATORY**

**3. WP hours can be credited**

**4. written attendance exam P2 (multiple choice, max. 1h)**

- **Holders of a hunting licence do not need to take the weapons law part of this examination, as they already have expertise in weapons law. However, they must be tested in weapon and projectile technology.**

- **Non-licence holders are tested in firearms law and firearms technology.**

1. Anatomical Institute of the TiHo (lecture theatre and dissecting rooms)

2. ITAW Hanover, Building 106

Application: **The application for a place takes place via a "TiHoStudIS short survey".**

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#### 1551 Ph, T Forum Ethics: Animal use in studies



Kunzmann, Spindler

**S** for the **3rd/5th/7th** semester **2 hours** **100%** max. **40 participants** Subject area: **Other**

Focus: **Animal welfare**

*Veterinary medicine is learnt from animals. The seminar questions the sense and necessity of using live or dead animals for learning purposes. Dr B. Spindler is one of the TiHo's animal welfare officers.*

**Block event** Wednesday, 30.10.2024 from 16.30-18.15 hrs

Start: 30.10.2024

**The seminar takes place as a synchronised video meeting at MS Teams. You will be invited to join the WP team in good time. Image (camera) and sound (microphone) are required for participation. Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

MS teams

Registration: **online**

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#### 1552 Ph, T Forum Ethics: "I can't do it." Stress during studies



Kunzmann, Nelke

**S** for the **3rd/5th/7th** semester **3 hours** **100%** max. **30 participants** Subject area: **Other**

*A short unit on dealing with stress: sources, forms, remedies. Questions relevant to the students are collected before the event.*

**Block event** Wednesday, 27 November 2024, 4-6 p.m. c.t.

Start: 27.11.2024

**The event takes place in SYNCHRON via MS Teams. You will be automatically added to the "team" of the event after registration via StudIS.**

**Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

MS Teams

Registration: **online**

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#### 1555 Ph, T Reading course: Sources of animal ethics



Kunzmann, Persson, Hartstang

**S** for the **1st/3rd/5th/7th** semester **28 hours** **75%** max. **14 participants** Subject area: **Other**

*The seminar is aimed at students who are interested in familiarising themselves with and studying source texts on animal ethics as part of a seminar. In the seminar, classics of animal ethics literature will be read (in extracts) and discussed.*

*One face-to-face session takes place every 14 days, the preparation time in self-study is also remunerated with WP hours.*

**fortnightly event** Wed 16-18 h Start:

09.10.2024

**The first face-to-face session will take place on Wednesday, 9 October at 16:00 in the ITTN seminar room.**

Seminar room

Institute of Animal Hygiene, Animal Welfare and Farm

Animal Ethology Bischofsholer Damm 15 (Building 116)

Registration: **online**



1559

**PhYour questions on professional ethics**

Kunzmann

**S** for the **1st** semester **5 hours** max. **400 participants** Subject area: **Other**

*This compulsory elective course serves to deepen the content of the asynchronous lecture "Introduction to Professional Ethics" and, above all, to create space for students' questions. In the tried and tested format of an "online consultation", students can pick up on topics from the lecture or contribute their own aspects or discuss ethical issues relating to the veterinary profession.*

**Block event** Fri 8-9 a.m. from 8-9

a.m. c.t. on 25 October 2024

29.11.2024

20.12.2024

10.01.2025

24.01.2025

Start: 25.10.2024

**Please send enquiries to [Andrea.Nelke@tiho-hannover.de](mailto:Andrea.Nelke@tiho-hannover.de)**

MS Teams

Registration: **Registration during enrolment**

1560

**Ethics in the clinic**

Kunzmann et al.

**V** for the **5th** semester **14 hours** **75%** max. **270 participants**Speciality: **individual animals, farm animals, food, diagnostics, research**Focus: **small animal diseases, equine diseases, pet diseases, farm animals, cattle, farm animals, cloven-hoofed animals, farm animals, poultry, infectious diseases, animal welfare**

*The course explores and deals with moral conflicts that arise for veterinarians, particularly in the clinical environment.*

*It is organised in close cooperation with the TiHo clinics.*

**weekly event** Wed 12-13 h Start: 09.10.2024**Please send enquiries to [Andrea.Nelke@tiho-hannover.de](mailto:Andrea.Nelke@tiho-hannover.de)**

Patho lecture theatre

Registration: **online****1561 Ph, T Selected questions of animal ethics**

Kunzmann, Bollmeier, Hartstang, Messer, Nelke, Persson

**V** for the **3rd/5th/7th** semester **28 hours** max. **170 participants**Speciality: **individual animals, farm animals, other**

*The series first provides an introduction to the most important positions in animal ethics and then addresses new issues. Current animal ethics discourses are addressed. Topics discussed include cows, ageing animals, horses, animals in film, art and cosmetics, animal testing and animal disease control, birds, wolves and the future of agriculture.*

*Every Wednesday from 2 p.m., a lecture is made available as a video via MS Teams. This can be attended digitally for one week at a time. In addition, a small task must be solved within a week.*

**Weekly event** Wed 14:00 Start: 09.10.2024**The courses are asynchronous and can be attended within a week.****Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

*MS Teams: You will be automatically added to the "team" of the course after registration via StudIS.*

Registration: **online**

1563

**Animal welfare aspects of keeping rabbits and guinea pigs**

Rock

**V** for the **3rd/5th/7th** semester **3 hours** **100%** max. **200 participants** Subject area: **Individual animals**Focus: **Pet diseases, animal welfare**

*Rabbits and guinea pigs are frequently seen patients in small animal practices. Veterinarians are also increasingly taking on the role of counsellor for husbandry issues. It is not uncommon for inappropriate husbandry or breeding to be the cause of health problems in animals.*

*In this compulsory elective course, the connections between keeping, breeding and animal health in rabbits and small rodents are presented. Firstly, the husbandry requirements of rabbits and guinea pigs are discussed. Animal welfare aspects of keeping and breeding animals are also explained from the perspective of an animal welfare organisation. A specialist vet for pets will also report on her practical experience of diseases in rabbits and small rodents caused by keeping and breeding.*

*Speakers: Dr Michaela Fels, Jana Hoger, Peter Höffken, Dr Jutta Hein* **Block**

**event** Wednesday, 18.12.2024, 13:30 - 16:00 Online (MS Teams)Registration: **online**



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1564 Ph, T Practice-Ethics-Practice: Official veterinary service between law and reality - Part A



Kunzmann, Hartmann

V for the 3rd/5th/7th semester 3 hours max. 80 participants Subject area: Other

*The article discusses key areas of conflict, but also solutions to ethical issues in official veterinary fields of activity. The speaker, Dr Martin Hartmann, draws on experience from many levels of the profession.*

*The event takes place ASYNCHRON.*

**Block event** Asynchronous from 07.10.2024

**Part A and Part B can be attended INDEPENDENTLY. Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

MS Teams

Registration: **online**

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1565 Ph, T Practice-Ethics-Practice: Official veterinary service between law and reality - Part B



Kunzmann, Hartmann

V for the 3rd/5th/7th semester 3 hours max. 80 participants Subject area: Other

*The article discusses key areas of conflict, but also solutions to ethical questions in official veterinary fields of activity. The speaker, Dr M. Hartmann, draws on experience from many levels of the profession. Among other things, he was Honorary President of the Federal Association of Civil Servant Veterinarians and Vice President of the Federal Chamber of Veterinarians.*

*The event takes place ASYNCHRONOUS!*

**Block event** Asynchronous from 07.10.2024

**Part A and Part B can be attended INDEPENDENTLY from each other.**

**Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

MS Teams

Registration: **online**

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1566 Ph, T Practice ethics practice: "Even a vet doesn't know everything." Joint resolution of ethical conflicts from equine practice

Kunzmann, Allmers

S for the 3rd/5th/7th semester 12 hours max. 16 participants Subject area: Individual animals  
Focus: **Equine diseases**

*We have invited an experienced vet to talk about his day-to-day work in equine practice. This raises many moral questions that are rarely addressed in the course of studies and which are not always dealt with in the "real" world often look quite different.*

*In addition to questions about the job description, we also look at specific examples.*

*This results in very honest and courageous insights into the REAL everyday life of a practising vet. In an active dialogue between veterinarian and students, the conflicts are broken down and dealt with using the ethical instruments.*

**Block event** Saturday, 26.10.2024, 09 a.m. s.t.- 5 p.m.

Start: 26.10.2024

**Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

Seminar room ITTN

Registration: **online**

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1569 Ph, T Practice ethics practice: "Even a vet doesn't know everything." Joint resolution of ethical conflicts from the official veterinary service

Kunzmann, Schimanski

S for the 3rd/5th/7th semester 12 hours max. 16 participants Subject area: Individual animals  
Focus: **Small animal diseases**

*Dr Michael Schimanski is an experienced official veterinarian and is responsible for animal welfare at the Hannover Region. His real-life case and conflict constellations form the basis for this seminar. In addition to a lively discussion of specific situations, it also provides in-depth information on the professional field.*

**Block event** Saturday, 30.11.2024, 09-17 h

Start: 30.11.2024

**The seminar takes place as a face-to-face event in the ITTN seminar room.**

**Please send enquiries to [andrea.nelke@tiho-hannover.de](mailto:andrea.nelke@tiho-hannover.de)**

Seminar room ITTN

Registration: **online**

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1570 Ph, T Online seminars on the welfare of farm animals



Spindler and Kemper

for the 1st/3rd/5th/7th/9th semester 9 hours max. 100 participants Subject area: Farm animals  
Focus: **Animal welfare**

*In this compulsory elective, current topics on the keeping and welfare of farm animals are offered in the form of online events.*



It is planned that three online events (<https://www.fokus-tierwohl.de/de/veranstaltungen#!/>) offered as part of the Network Focus on Animal Welfare (NFT) will be attended over the course of the winter semester. These events take place online mainly on weekdays in a time slot from 6-8 pm. Dates and topics can be found on the NFT website (<https://www.fokus-tierwohl.de/en/events#!/>), where each student must register independently for the desired course (3 in total). Students taking part in the WP can attend three courses of their choice within the semester, which they can then have recognised as WP. Proof of participation must be provided by sending the 3 certificates of participation (issued by the NFT after participation) to [birgit.spindler@tiho-hannover.de](mailto:birgit.spindler@tiho-hannover.de).

**Block event** Participation in three online seminars (information on this at: <https://www.fokus-tierwohl.de/en/events#!/>)

**Online seminars; LINK will be sent after registration for the respective event.**

Online

Registration: **online**

1571

### PhStraußenhaltung in Germany

#### A sought-after niche

*Spindler and Kulke*

for the **1st/3rd semester 4 hours** **100%** max. **20 participants** Subject area: **Farm animals**

Focus: **Animal welfare**

*The excursion includes a visit to an ostrich farm that specialises in breeding and fattening ostriches.*

**Block event** Excursion on Wednesday, 23 October from 2-7 p.m.

**The journey to the farm near Walsrode takes place in the Institute's VW buses. Participation costs for the guided tour on site: €8/person (to be brought in cash)**

*Departure at 14:00 from the Praktikplatz at the ITTN*

Registration: **online**



### 1582 General conservation of endangered livestock breeds

*Small, butcher*

for the **3rd/5th/7th semester 4 hours** **100%** max. **100 participants**

Speciality: **Individual animals, farm animals, research**

*Biodiversity and conservation of domestic animal breeds based on practical examples (ark farms, saving breeds threatened with extinction)*

*Principles of conservation breeding programmes and assessment of endangered status*

*Data and gene banks for the conservation of endangered livestock breeds*

*Biotechnological approaches for the conservation of endangered livestock breeds*

*Genetic diversity, specific genetic characteristics of breeds, conservation of cattle and pig breeds,*

*Horse and poultry breeds in practice*

**weekly event** Wed 15:00-17:00 Dates: 23.10.24, 30.10.24

Start: 23.10.2024

*Lecture theatre Animal Genomics*

Registration: **online**



### 1583 General nutrigenomics - you are what you eat

*Butcher, Lipinski*

for the **1st/3rd/5th/7th semester 2 hours** **100%** max. **40 participants**

Speciality: **Food, Research, Other** Focus: **Nutritional physiology**

*"You are what you eat" - this motto applies not only to humans, but also to our animals. The interaction between nutrition and genes or an individual's genome plays an important role here. Nutrigenomics investigates how food and bioactive nutrients can influence gene expression, among other things.*

*In this seminar, we will cover everything from the molecular basics of nutrigenomics to clinical case studies. We will place a special focus on the methodological possibilities and the practical implications in veterinary medicine. Our aim is to explain modern methods such as multi-omics technologies including genomics, transcriptomics, proteomics and metabolomics and to provide a sound understanding of the interactions between nutrients and genes.*

**Block event** Wed 14:15-16:00 13.11.2024  
14:15-16:00

*Lecture theatre Animal Genomics*

Registration: **online**



1584

### TInternship "Research in Genomics"

#### Experience research live

*Butchers and employees*

**C** for the **5th/7th semester 12 hours** **100%** max. **4 participants**

Speciality: **Diagnostics, Research, Other**

*First insights into research in a molecular genetics and genome research laboratory: Participants have the opportunity to follow the path from sample to sequencing and analysis. Where to find*





DNA and RNA everywhere? What does a genome sequencer actually look like? And how many mutations does a dog or a cow actually have? All this and much more is taught in this course.

**Block course** Dates by arrangement; 4x3 hours per semester

**Please bring a smock and an extra pair of clean, closed shoes**

Institute for Animal Genomics

Registration: **Please register at the secretariat for animal genomics**

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## 1588 General Data Analysis and Bioinformatics with R



Young

**V/Ü** for the **3rd/5th/7th** semester **24 hours** **75%** max. **25 participants**

Field: **Research, Other**

- Introduction to R programming; data structures and data processing in R  
- statistical basics for bioinformatic analyses (statistical testing, regression, analysis of variance, correlation analysis)  
- bioinformatics data analysis in R (sequence alignment, phylogenetics, analysis of molecular high- throughput data from microarray and NGS experiments, normalisation, visualization multiple testing, gene- set enrichment, machine learning, artificial neural networks)

- Please note: Biometry and statistics basics according to the study regulations and doctoral regulations "med vet" are offered by the Institute of Biometry, Epidemiology and Information Processing. This R course focuses on special methods for data analysis in bioinformatics.

**Block event** 19.02., 20.02., 21.02.2024

each day 09:00-12:00 and 13:00-16:00

MS Teams

Registration: **Computer Lab, TiHo Tower, Room 322**

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1591

## PhSpecial Zoology



B. Schierwater, H. Hadrys, K. Kamm

**V** for the **1st/3rd** semester **26 hours** max. **150 participants** Subject area: **Other**

*Learning objectives: The phyla of the animal kingdom - Acquiring basic knowledge about the basic structure of the phyla of the metazoans and their phylogeny.*

**weekly event** Mon 14:00-16:00 Start: 14.10.2024

Pathology lecture theatre

Registration: **online**

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1611

## TSerological and molecular detection methods for viral infections



**Five-day practical workshop on the implementation of methods of the national reference laboratory for henipavirus infections at the Friedrich-Loeffler-Institut (Institute for New and Novel Animal Pathogens), Insel Riems**

Balkema-Buschmann, Groschup

**C** for the **5th/7th** semester **30 hours** **100%** max. **6 participants**

Speciality: **Etiology, diagnostics, research** Focus: **Infection medicine**

*ELISA, Western blot, cell culture, transfection of cells, indirect immunofluorescence, real-time RT-PCR*

**Block event** The course takes place twice:

03.02.-07.02.2025

10.02.-14.02.2025

Start: 03.02.2025

**Binding registrations will be accepted until 13.12.24. As the number of participants is limited, places will be allocated according to the number of registrations received.**

**Please register with PD Dr Anne Balkema-Buschmann Contact: [anne.buschmann@fli.de](mailto:anne.buschmann@fli.de); Tel. 038351-7-1515**

**Assistance can be provided with booking affordable accommodation in Greifswald if necessary.**

*Friedrich-Loeffler-Institut, Institute for New and Novel Animal Pathogens, Südufer 10 17493*

*Greifswald - Insel Riems*

Registration: **E-Mail ([anne.buschmann@fli.de](mailto:anne.buschmann@fli.de))**

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1612 T

## Molecular Infection Biology



Becher, Goethe (coordination) and other lecturers

**S** for the **5th/7th** semester **28 hours** max. **12 participants**

Speciality: **Etiology, diagnostics, research** Focus: **Infection medicine**

*The course teaches the molecular basics of bacterial and viral infections, which are important for their aetiology, pathogenesis, diagnosis and control.*

**weekly event** Wed 14:15-15:45 Start: 09.10.24

**Minimum number of**

**participants:8** *Lecture theatre,*

*Institute of Microbiology*

Registration: **online**



1613 T

### Infectious diseases in livestock From bacteriological laboratory diagnostics to stock remediation



Schaaf, Ossowski, Kiene

**S/Ü** for the **5th/7th** semester **14 hours** **100%** max. **12 participants** Subject area: **Farm animals, diagnostics**  
Focus: **farm animals, cloven-hoofed animals, infectious medicine**

*Using case studies from the livestock sector (small ruminants, pigs), students learn how to assess a "stock problem", which investigations are necessary to eliminate the causes, how to detect bacterial pathogens and how to treat/remediate the stock accordingly.*

*This compulsory elective course consists of a theoretical part (2 dates) and a practical part (2 dates, laboratory diagnostics and a stock drive).*

**Block event** 13.11.2024, 20.11.2024 and 27.11.2024 (each 14.15-15.45) Excursion on 30.11.2024 (time by arrangement)

Seminar room, Institute of Microbiology (13.11.2024, 27.11.2024)

Lecture hall, Institute of Microbiology (20.11.2024)

Registration: **online**

1620 T

### Infectious Immunology Infection immunology seminar on selected zoonotic pathogens



Lepenies

**S** for the **5th/7th** semester **24 hours** **100%** max. **10 participants**  
Speciality: **Etiology, diagnostics, research** Focus: **Infection medicine**

*Infection immunology research at the TiHo is concerned with the recognition of pathogens by the innate immune system and pathogenicity mechanisms of zoonosis-relevant pathogens. The seminar provides in-depth knowledge of immunology (innate and adaptive immune system, antigen presentation, cellular and humoral immune response) and discusses current findings from the research field of infection immunology.*

**Block event** Date by arrangement; probably held as a block seminar at the weekend (Saturday & Sunday, 9-17 hrs)

**Preliminary discussion on Monday, 07.10.2024 at 6 pm via Microsoft teams**

Research Center for Emerging Infections and Zoonoses (RIZ), Bünteweg 17

Registration: **online**

1662 Ph, T X-ray



Seifert, Lüpke, N. N.

**S/Ü** for the **3rd/5th/7th** semester **4 hours** **100%** max. **48 participants**

Speciality: **individual animals, farm animals, diagnostics, research, preclinical, other** Focus: **small animal diseases, equine diseases, pet diseases, farm animals Cattle, farm animals Clavated animals**

*Independent X-ray under supervision on a modern veterinary X-ray system, taking X-ray images with film-foil system (conventional) and storage-foil system (digital), influence of various exposure parameters on image quality in conventional and digital X-ray, interactive image post-processing on the monitor (e.g. zoom, edge enhancement, noise suppression)*

**Block event** Dates by arrangement

**Dates by arrangement (there are 6 events with the same content and a maximum of 8 participants per event).**

**If necessary, this course will be offered in WS 2024/25 on Moodle in the form of CASUS cases (topics: X-ray equipment, image quality, radiation protection).**

X-ray room of the Department of General Radiology and Medical Physics

Registration: **online**

1663

### PhEscape-Room Physics Save Schrödinger's cat



Bräuninger, Lüpke, Seifert

**Exercise** for the **1st** semester **4 hours** **100%** max. **45 participants** Subject area: **Preclinic**

*Escape rooms are rooms in which different puzzles have to be solved one after the other or sometimes in parallel in order to find the key to leave the room. These rooms and their board game and digital variants have been growing in popularity for several years.*

*Each puzzle in the escape room is designed to address a specific physical concept or theme. Students must use their logical thinking skills and experimental curiosity to solve the puzzles and find clues that will help them unravel the mystery of the room. Team spirit and co-operation are of great importance, as the students have to develop solution strategies together and combine their knowledge.*

*The puzzles cover different areas of physics, such as mechanics, electromagnetism, thermodynamics, vibrations and waves, and optics. Each puzzle solved rewards students with new information and tools to help them overcome the next challenges. An exciting frame story, "Save Schrödinger's Cat", links the individual puzzles into a coherent adventure. Further information can be found at <https://www.tiho-hannover.de/kliniken-institute/departments-and-research-centres/departments-general-radiology-and-medical-physics/teaching/physics-escape-room>*

*/departments-and-research-centres/departments-general-radiology-and-medical-physics/teaching/physics-escape-room*

**Block event** Dates by arrangement






**Groups of three people are formed for the escape room. Please register**



first register online (e-mail with the names of the three participants) and select the date you would like to attend in our office. The dates will be in December/January. Meeting point: In front of the General Radiology and Medical Physics office (basement)  
The escape room is a subsidised project. Therefore, tests are carried out before and after solving the escape room (anonymous, ungraded for evaluation and quality assurance).

Physiology building (meeting in the basement, this is where the briefing takes place, the escape room itself is located in the attic)

Registration: [E-Mail \(irene.zenker@tiho-hannover.de\)](mailto:irene.zenker@tiho-hannover.de)

1681 T	<b>Management of fish stocks in large aquaria (online course)</b> <b>Veterinary care for a large aquarium</b> <i>Jung-Schroers and employees</i> <b>C</b> for the 3rd/5th/7th semester <b>3 hours</b> <b>75%</b> max. <b>50 participants</b> Subject area: <b>Individual animals</b> Focus: <b>Pet diseases</b> <i>Assessment of fish husbandry and health: Adspection, inspection of the facility, veterinary examination of fish.</i> <b>Block course</b> A video clip will be made available for self-study; afterwards questions will be answered to check success Start: 09.10.2024 <i>Online (asynchronous)</i> Registration: <b>online</b>	
1682 T	<b>Management of fish stocks in carp pond farms (online course)</b> <b>Veterinary care for a carp pond farm</b> <i>Jung-Schroers and employees</i> <b>C</b> for the 3rd/5th/7th semester <b>3 hours</b> <b>75%</b> max. <b>50 participants</b> Speciality: <b>Individual animals, farm animals</b> Focus: <b>Farm animalsOther</b> <i>Introduction to the keeping and rearing of carp Occurrence of diseases in carp stocks Assessment of keeping and health of the fish</i> <b>Block course</b> A video clip will be made available for self-study. Success is then assessed by answering a questionnaire. Start: 09.10.2024 <i>Online (asynchronous)</i> Registration: <b>online</b>	
1683 T	<b>Advanced course fish diseases 1 (online course)</b> <b>Advanced course 1</b> <i>Jung-Schroers and employees</i> <b>C</b> for the 3rd/5th/7th semester <b>10 hours</b> <b>75%</b> max. <b>50 participants</b> Speciality: <b>Individual animals, farm animals</b> Focus: <b>Pet diseases, farm animalsOther</b> <i>Special aspects are discussed, such as anaesthesia, treatment options, imaging procedures and prophylactic measures.</i> <b>Block event</b> Lecture slides and video clips for self-study; finally, completion of a questionnaire to monitor success Start: 09.10.2024 <b>Please note: Participation in this course requires participation in the course "Introduction to clinical diagnostics in fish". This must be proven by the completed questionnaire of the course (from this or one of the previous semesters).</b> <i>Online (asynchronous)</i> Registration: <b>online</b>	
1685 T	<b>Infectious diseases in fish (online course)</b> <i>Jung-Schroers, Adamek, Miebach and colleagues</i> <b>C</b> for the 3rd/5th/7th semester <b>26 hours</b> <b>75%</b> max. <b>50 participants</b> Speciality: <b>Individual animals, farm animals</b> Focus: <b>Infectious medicine</b> <i>Parasitic infections, bacterial infections, viral infections and fungal infections in various fish species are discussed.</i> <b>Block course</b> Video clips about Studis are made available. A questionnaire must be completed at the end of the course to assess success. Start: 09.10.2024 <i>Online (asynchronous)</i> Registration: <b>online</b>	
1686 T	<b>Management of fish stocks in trout pond farms (online course)</b> <b>Veterinary care for a trout farm</b> <i>Jung-Schroers and employees</i> <b>C</b> for the 3rd/5th/7th semester <b>3 hours</b> <b>75%</b> max. <b>50 participants</b>	



Speciality: **Individual animals, farm animals** Focus: **Farm animals** Other

*Introduction to the keeping and rearing of trout*  
*Occurrence of diseases in trout stocks* *Assessment of keeping and health of the fish*

**Block course** A video clip will be made available for self-study. Success is then assessed by answering a questionnaire.

Start: 09.10.2024

Online (asynchronous)

Registration: **online**

1688 T

### Advanced course fish diseases 2 (online course)



#### Advanced course 2

*Jung-Schroers, Bauer and employees*

**C** for the **3rd/5th/7th** semester **10 hours** **75%** max. **50 participants**

Speciality: **Individual animals, farm animals** Focus: **Pet diseases, farm animals** Other

*Special aspects are discussed, such as reproduction, shrimp diseases and technology in the aquarium and pond.*

**Block event** Lecture slides and video clips for self-study; finally, completion of a questionnaire to monitor success

Start: 09.10.2024

**Please note: Participation in this course requires participation in the course "Introduction to clinical diagnostics in fish". This must be proven by the completed questionnaire of the course (from this or the previous semester).**

**Please note: We will provide you with the documents for this course at the end of OCTOBER 2020.**

Online (asynchronous)

Registration: **online**

1693

### Veterinary diagnosis of fish diseases: from case to diagnosis and therapy



*Jung-Schroers, Adamek and colleagues*

**S** for the **3rd/5th/7th** semester **26 hours** **75%** max. **6 participants**

Speciality: **Individual animals, farm animals, diagnostics** Focus: **Infectious medicine**

*Laboratory diagnostic methods are presented on the basis of clinical case studies.*

**weekly event** Wed 14:00-15:30 Start: 09.10.2024

*Department of Fish Diseases, Bünteweg 17, Building 227*

Registration: **online**

1701 Ph, T Normal behaviour of the horse



### Horse - Behaviour - Attitude - Handling

*Bohnet*

**V** for the **3rd/5th/7th** semester **16 hours** max. **130 participants**

Speciality: **Individual animals, farm animals** Focus: **Equine diseases, animal welfare**

*Functional circuits of horse behaviour and the resulting consequences for keeping and handling*

**weekly event** Wed 14:15-15:45 Last day of the WP is

27.11.24

Start: 09.10.2024

**Successful participation (at least 60 %) in this WP is a prerequisite for participation in the WP "Equine Behavioural Medicine" in the summer semester.**

*Boehringer lecture theatre in the equine clinic on Bünteweg*

Registration: **online**

1702 Ph, T Normal behaviour of the dog



*Bohnet, Länger*

**V** for the **3rd/5th/7th** semester **12 hours** max. **130 participants** Subject area: **Individual animals**  
Focus: **small animal diseases, animal welfare**

*Functional circuits of dog behaviour, taking into account breed characteristics. One focus will be on the expressive behaviour of dogs and human-dog communication.*

**weekly event** Wed 16-18 h Start: 09.10.2024

online (asynchronous)

Registration: **online**

1703 T

### Behavioural medicine cat



*Bohnet, Länger*

**V/S** for the **7th** semester **12 hours** **75%** max. **20 participants** Subject area: **Individual animals**

Focus: **Small animal diseases**

*Based on the normal behaviour of cats, the most common problem behaviours of cats are discussed using case studies.*



**weekly event** Wed 14-16 h Start: 04.12.24

Seminar room 215 in the TiHo Tower

Registration: **online**

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**1717 Ph, T Dog trainer certification from the Lower Saxony Chamber of Veterinarians**



Bohnet

**Exercise** for the **3rd/5th/7th** semester **4 hours** max. **2 participants** Subject area: **Individual animals**  
Focus: **small animal diseases, animal welfare**

*These are real examinations of dog trainers who require a licence from the competent veterinary office in accordance with §11 No. 8f TierSchG for the commercial training of dogs for third parties or for the instruction of the training of dogs by the dog owner. The dog trainer certification of the Lower Saxony Chamber of Veterinarians is one way of providing proof of the necessary expertise. The examination consists of a practical part followed by an expert discussion and is organised by the Chamber of Veterinarians in cooperation with the TiHo.*

*The WP participants make themselves available for the practical part of the dog trainer examinations as a dog-owner team. Students without dogs can participate as spectators/listeners. Students gain knowledge about learning theory, behavioural development and expressive behaviour of dogs, dog education/training and legal aspects.*

**Block event** Dates by arrangement

**Students with dogs are available as a dog-owner team for the practical examination. They can then take part in the technical discussion. Students without dogs can take part in both parts of the examination as spectators/listeners. the specified WP hours and maximum number of participants are per examination date! You can take part in several dates!**

TiHo dog park

Registration: **E-Mail** ([willa.bohnet@tiho-hannover.de](mailto:willa.bohnet@tiho-hannover.de))