

## Courses in the summer semester 2024

## Compulsory elective courses for veterinarians 2001 T Practical dental treatment in horses @?m Chodzinski S/Ü for the 6th/8th semester 8 hours 100% max. 10 participants Subject area: Individual animals Focus: Equine diseases The dental treatment of horses is an important practical skill in equine medicine. In the compulsory elective, we work on the theoretical basics of horse teeth and the process of (routine) dental treatment, including the necessary instruments (presence + Moodle). Finally, we will practise (routine) dental treatment on the simulator in teams of two. Block event dates: Introductory event on 17.04.2024 in presence in the Clinical Skills Lab. Subsequently. individual appointments with 2 people each for the practical exercise. Before the practical exercise, a Moodle course must also be completed in preparation. Start: 17.04.2024 Please bring your own mouth and nose protection (FFP3 mask!) to protect against dust exposure 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 2002 General VetSkillsLab Challenge Т Wissing in cooperation with the skills lab managers of the other veterinary locations S/Ü for the 4th/6th/8th semester 14 hours 100% max. 10 participants Speciality: individual animals, farm animals, diagnostics Focus: small animal diseases This is an interactive online elective event organised by all German veterinary skills labs with the aim of

practising and improving practical skills and promoting student exchange.

Three different challenges have to be mastered within three weeks. One task is set in each of the first two weeks. Each of these is a case study with practical exercises embedded in it, which you can complete from home using everyday materials. You have one week to complete each task.

Finally, creativity is required - in teams of 5 across different locations, you will try your hand at developing your own model. Whether you immediately grab a hammer and nail, create a video tutorial or write creative instructions is entirely up to each team.

Block event Block event Introductory event (Zoom): 23.04.2024 from 18.00h (approx. 2 hours)

Week 1: Introduction: 23.04.-28.04.2024

Week 2: Challenge 1: 29 April - 5 May 2024

Week 3: Challenge 2: 05.05.-12.05.2024

Week 4: Challenge 3 across locations: 13.05.-10.05.2024 Closing event

(Zoom): 21.05.2024 from 18.00 (approx. 2 hours) Start: 23.04.2024

The cross-location group allocation is carried out by the Skills Lab leaders once the lists of participants have been finalised. They meet independently in the allocated groups to brainstorm online and develop ideas.

In the joint closing event, the results of the respective groups are presented to the other participants in an online discussion.

The introduction and provision of the tasks and the uploading of the results takes place via the online portal tet.folio of the Freie Universität Berlin.

Online

Registration: online

## 2003 TUmperience with bird patients

#### Bettermann

### S/Ü for the 6th/8th semester 12 hours 100% 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  $(1 \times 4 \text{ hours online})$  on the theoretical basics, the group is divided into two groups. Half of the students complete training  $(1 \times 4 \text{ hours each in groups of } 3 \text{ to } 6)$  on several different simulators (a single simulator for each skill), while the other half of the students complete training  $(1 \times 4 \text{ hours each in groups of } 3 \text{ to } 6)$  on a multifunctional simulator (several skills can be performed on one simulator).

#### Finally, each student completes unknown scenarios independently (1 x 3 hours).

**Block event** The date for the introductory event for all participants will take place on 24.04.2024 14:00 - 18:00 (online via MSTeams).

The date for the subsequent training for each group and the date for the independent completion of unknown scenarios for each student will be coordinated via Moodle.

Further information will be sent directly to the participants by e-mail. Start: 24.04.2024 *Clinical Skills Lab Bischosholer Damm 15, Building 116 30173 Hanover* 

Registration: online

#### 2004 Ph, T Learning stations in the Clinical Skills Lab

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

**Exercise** for the **2nd/4th/6th/8th** semester **6 hours** max. **4 participants** Speciality: **individual animals, farm animals, diagnostics, other** 

Acquisition of clinical skills

Block course After individual booking (max. 4 participants/course for supervised courses) The preparation for the learning stations on site takes place with the CSL courses on TiHoMoodle (e.g. CSL | Pets etc.). Please take a look at the relevant teaching materials (instructions, videos, etc.) before attending the face-to-face course.

Clinical Skills Lab Bischofsholer Damm 15, Building 116 30173 Hanover

Registration: TiHo students "Registration for the Clinical Skills Lab"

#### 2010 T Block seminar small animal skills

Tailor

S/Ü for the 6th/8th semester 17 hours 100% 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 course, you will learn the basics and advanced skills that you need for daily work in small animal practice. From eye examinations and intubation of dogs and cats to performing cystocentesis, there are many useful skills included. Of course, surgical skills such as suturing techniques are also practised.

Block event Dates: 2 days: 21.08.2024 and 22.08.2024 each 09.00-17.00 in the Clinical Skills Lab, Bischofsholer Damm 15, Building 116, 30173 Hannover

If an exam falls on this date, the WP will be adjusted if necessary. Start: 21.08.2024

A lunch break is planned. Please bring your own lab coat. If available, please bring your own stethoscope. 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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#### 2051 General basics of business practice management

Part 2 (summer semester) - also possible without part 1

Yours, Kleinsorgen

## S for the 6th/8th semester 20 hours 100% max. 33 participants Subject area: Other

Part 2 of the course covers, among other things, forms of credit and financing, taxes, the limits of advertising, social media and telemedicine, personnel management and labour law, communication within the team and with customers.

Notes: The course is an online-only course with 7 live web meetings. Opportunities for discussion are provided via the chat. Regular and successful participation is verified by a multiple-choice test immediately following each individual web meeting. Participation in Part 1 is NOT a prerequisite for participation in Part 2.

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

weekly event Wed 18-20 h Wednesday,

15.05.2024 18:00-20:00 Wednesday, 22.05.2024 18:00-20:00 Wednesday, 05.06.2024 18:00-20:00 Wednesday, 12.06.2024 18:00-20:00 Wednesday, 19.06.2024 18:00-20:00 Wednesday, 26.06.2024 18:00-20:00 Wednesday, 03.07.2024 18:00-20:00 Start: 15.05.2024 Participation in the webmeatings and n

Participation in the webmeetings and passing the multiple-choice test immediately after each webmeeting are prerequisites for recognition. Headphones/speakers are recommended for the web meeting.

The event will take place via the Cisco Webex Meetings video conferencing system. Links for participation will be sent by e-mail.

Registration: online

#### 2052 General learning

Ille, Hoischen, Schaper



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#### S for the 2nd/4th/6th 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 are essential for success in your studies. The compulsory elective "Learning to learn" is intended to provide participants with some tools to make their own exam preparation easier.

This compulsory elective focusses in particular on

ProcrastinationBasics of learning

- Learning, time and self-management
- Exercises on learning methods

- Physical and mental relaxation and balance, exam stress and mental health

Block event Block event 26.04.2024 - 28.06.2024 Kick-off event on MS teams on 26.04.2024 Closing event on MS teams on 28.06.2024 Start: 26.04.2024

The MS Teams events are voluntary and take place several times at different times of the day; all participants are free to choose which of the offered dates they wish to attend. The rest of the course content is completed asynchronously and flexibly in Moodle. The total number of hours is awarded if everything is completed and all courses are attended, otherwise it is reduced accordingly.

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

MS Teams, Moodle

Registration: online

#### 2053 General key competences

In this compulsory elective, 5 case studies on key competences are available, which can be worked on independently online in the CASUS system. An accompanying face-to-face event or Video conferencing does not take place.

Kleinsorgen, Schaper

#### S for the 2nd/4th/6th/8th semester 5 hours max. 300 participants Subject area: Other

The cases are as follows:

1) Team development - Are you still arguing or are you already working?

2) Do you learn "SMART"?

3) Procrastination - the student syndrome

4) Feedback the kickstart to success

5) Questioning techniques - knowledge begins with questions

Block event 17.04.2024 - 17.07.2024

Start: 17.04.2024

The course takes place purely online in the CASUS system. 5 cases can be worked on. One WP hour is awarded for each successfully completed case. Once you have registered, you will be entered in the CASUS course and will receive an invitation to participate by e-mail shortly before the course begins.

It is not mandatory to register for the WP via StudIS. Anyone who sends us an e-mail and would like to work on one or more cases will be added as a participant. Contact: Dr Kleinsorgen



#### 2054 General basics of communication and dialogue

#### Wissing, Kleinsorgen

## S for the 2nd/4th semester 4 hours 100% max. 40 participants Subject area: Preclinical, 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. As part of exercises, various factors influencing communication are worked on independently using text, videos and exercises and the application of specific communication techniques and dialogue strategies are practised in interactive tasks.

This compulsory elective course takes place as a purely online event. There are two theoretical online units that will be activated for you one after the other. As part of these online units, you will have to complete various tasks in Moodle.

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 event 17.04.-01.05.2024: Learning units 1 & 2 Start: 17.04.2024 The online content must be processed within 2 weeks.

• Online in Moodle

Registration: online

## 2055 T Veterinary communication

Wissing, Kleinsorgen

## S for the 6th/8th semester 6 hours 100% max. 24 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 b e 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\*. Allocation to the simulation dates will take place from 17 April 2024, the simulation dates are Wednesday afternoons in May.

#### Block event 17.04.-01.05.2024: Learning unit 1 & 2

The simulation dates in the Clinical Skills Lab will take place on 15.05.24, 22.05.24 and 29.05.24 from 2pm to 4pm or 4pm to 6pm in groups of 4. One simulation date per student will be allocated after the WP allocation.

Start: 17.04.2024

Two online units of 2 hours each are to be completed in the above-mentioned period. The simulation appointment takes place in the communication system in the Clinical Skills Lab by appointment.

Online in Moodle, presence in the Clinical Skills Lab

Registration: online

#### 2057 General tutor training

A didactics training course for student assistants

Bartkowiak, Schaper

S for the 2nd/4th/6th/8th 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 event Fri 14-15 h





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Period: 26.04.2024 - 12.07.2024

This is an asynchronous self-study course in Moodle with 2 synchronous online sessions of 1 hour each (introduction on 26/04/2024 and completion & evaluation on 12/07/2024). After the introductory event, the course will be activated for independent work and will remain open until 1 2 July 2024.

The number of hours that are credited depends on participation in the modules and the online meeting dates. Start: 26.04.2024

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

Online in the learning management system Moodle and MS Teams

Registration: online

### 2058 Ph, T Progress Test / Trial Test

Progress test questions in English

Schaper

Exercise for the 2nd/4th/6th/8th/10th semester 2 hours 100% max. 700 participants Subject area: Other

To set up a progress test database with multiple choice questions in English, these MC questions are first tested in a pretest procedure ("trial test") to ensure that only valid MC questions are included in the database. A progress test is also offered when the database is set up.

The MC questions are designed by teachers from various veterinary training centres in Europe and cover most subjects of the curriculum. Approximately 150-200 MC questions are presented per pretest, which should be answered. As this is a trial test procedure, the results can only be given to a limited extent and unfortunately solutions cannot be announced.

**Block event** The Trial Test/Progress Test is conducted online. Participation is possible over a period of several weeks, a link to the test will be sent as well as relevant information. The time period is not yet fixed and will be communicated by e-mail. Participation without registration is then possible spontaneously. Start: 15.04.2024

Online

Registration: Prior registration is not required.

#### 2059 General introduction to Open Educational Resources (OER)

Bartkowiak, Schaper

## S for the 2nd/4th/6th/8th semester 1 hour 100% max. 50 participants Subject area: Other

The term "Open Educational Resources" (OER) has established itself worldwide as a term for "open educational resources" or "free/accessible teaching and learning materials" of all kinds. The dissemination of openly licensed OER, which are therefore accessible to everyone free of charge, is also becoming increasingly important within the German-speaking education landscape. This elective course aims to show students the advantages of using OER and familiarise them with the framework conditions for finding, using, editing, creating and sharing OER. In addition to OER-related basics of copyright law and Creative Commons licences, suitable material formats, special search engines and national and international OER portals will be presented. Practical tips and useful links round off the introduction to the topic of OER.

Block event Fri 16-17 h

The event will only be offered on 3 May 2024 from 16:15 to 17:00. If interested, a further date can be arranged. Start: 03.05.2024

The link to the event will be communicated in advance by e-mail.

online, MS Teams

Registration: online

#### 2060 General kick-off event Future discourse on error culture

Volk, Busse, Kleinsorgen, Johann, König

V/S for the 2nd/4th/6th/8th/10th semester 2 hours 100% max. 300 participants Speciality: Individual animals, other

- Creating awareness and understanding of error culture in veterinary medicine

Identification of dilemmas in the area of veterinary error culture
 Identification of barriers and possible solutions to improve the veterinary error culture

#### Block event Wednesday, 26 June 2024, 6 - 9 p.m. Participation will be recorded via LimeSurvey, the link/QR code will be made available during the event

aufhof Hannover, Schmiedestraße 12, 30159 Hannover or

online (streamyeard: Youtube, etc.)

Registration: No registration necessary

#### 2062 General tips and tricks for academic writing E-learning - CASUS case study

Richter, Osigus, Schaper, Leonhard-Marek

S for the 2nd/4th/6th/8th/10th semester 1 hours max. 600 participants Subject area: Other



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In this course you can work on a case on the topics of "avoiding plagiarism", "good scientific practice" and "correct citation" independently with the help of the CASUS programme.

**Block course** Independent processing of the case study from 22/04/2024 to 14/07/2024 Start: 22/04/2024

#### You will receive an invitation e-mail from the CASUS system and can then register yourself.

Self-registration in the CASUS course after registration & activation

Registration: online

#### 2121 Ph, T Special advanced diagnostics on birds

Beykirch, Dobner, Hennig, Jung, Jones, Legler, Lindenwald, Pees, Rautenschlein

S/Ü for the 2nd/4th/6th/8th semester 24 hours 100% max. 12 participants

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

Selected further examinations as a supplement to clinical diagnostics in ornamental, zoo, wild and farm poultry, with practical exercises.

weekly event Wed 14-16 h Start: 17.04.24

The first appointment on 17.04.24 will take place in the lecture theatre of the Clinic for Pets, Reptiles and Birds from

14.00 c.t.

The documents will be made available via Moodle.

1st event in the lecture theatre of the Clinic for Pets, Reptiles and Birds

Registration: online

## 2122 Ph, T Veterinary care of wild birds: Case discussions, species identification, habitat and behaviour as a basis for wild bird medicine

Legler

### S/Ü for the 2nd/4th/6th/8th semester 25 hours 75% max. 20 participants Speciality: Individual animals, other Focus: Pet diseases

Knowledge of the biology of birds is a prerequisite for the proper care and treatment of wild bird patients, and in particular for the prognosis (e.g. suitability for the wild). In this course, this topic is dealt with theoretically and practically. This includes ornithological systematics, behaviour, aspects of animal and species protection as well as the ecology and identification of native bird species. In addition, the diseases relevant to these bird groups, including diagnostics and therapy, are presented. The course will alternate between seminars (face-to-face sessions) and, where appropriate, field trips, usually early in the morning. The excursions take place mainly on Saturday mornings and lead to various natural areas in the vicinity of Hanover.

**fortnightly event** Wed 16:15-17:00 Start: 17.04.24

The event will take place in person.

First date: 17.04.24; 16:15 - 17:00, Auditorium Clinic for Pets, Reptiles and Birds

Classroom sessions in the lecture theatre of the Clinic for Pets, Reptiles and Birds, excursions by prior arrangement

Registration: online

## 2123 Ph, T Care and rearing of European wild birds

Young birds feeding team

Hennig; Legler

for the **2nd/4th/6th/8th** semester **25 hours** 75% max. **25 participants** Subject area: **Individual animals** Focus: **Pet diseases** 

Young birds of various European bird species end up in human care for a variety of reasons. The aim of this compulsory elective is to set up a "petting team" to support the staff of the bird department in rearing these young birds. The handling and practical care of young birds of various species will be taught in face-to-face events at two-week intervals. In a practical part, young birds can be cared for independently.

fortnightly event Wed 16:15-17:00 Start:

24.04.24

The course will take place as a face-to-face event, first date 24.04.24 in the lecture theatre of the Clinic for Pets, Reptiles and Birds. Elaborated presentations will be provided.

Registration: online

#### 2124 Ph, T Veterinary care of wild birds: Excursion to Hallig Hooge

#### Legler, Hetterich, Pees

E for the 2nd/4th/6th/8th semester 30 hours 100% max. 13 participants Subject area: Individual animals Focus: Pet diseases

Knowledge of bird biology is a prerequisite for the proper care and treatment of wild bird patients, and in particular for the prognosis (e.g. suitability for the wild). This includes ornithological systematics, behaviour, aspects of animal and species protection as well as the ecology and identification of native bird species and migrants. During this course, this topic is dealt with theoretically and practically. A particular focus will be on bird migration in the Wadden Sea as a pivotal point for many migratory birds in Europe. In addition, current and an excursion to the Hallig Hooge, 20 - 24.04.24, with accommodation in the seminar house of the Schutzstation Wattenmeer e.V. and self-catering with communal kitchen. Presentations are planned in



Seminar form, field trips, mudflat hikes and a cutter trip with catches of sea creatures that illustrate the ecology of the Wadden Sea. Accommodation, travel costs and catering are approx. 150 - 200 euros per participant.

Block event 21.04 to 25.04.2024 ( Start: 15.04.2024 A preliminary discussion of the excursion (21 - 25.04.24) will take place on 15.04.2024, 17:45 in the lecture theatre of the Clinic for Companion Animals. Registration is obligatory and costs of approx. 150 - 200 euros for travel, accommodation and catering must be expected. Ouestions can be sent to Marko Legler@tibo-bannover de For organisational reasons, the excursion

Questions can be sent to Marko.Legler@tiho-hannover.de. For organisational reasons, the excursion had to be postponed to 21.04 to 25.04.

Excursion to Hallig Hooge

Registration: online

## 2130 TV supply and care of inpatient pet patients

Reuschel, Krull

## S for the 4th/6th/8th semester 20 hours max. 10 participants Subject area: Individual animals, other 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. 08:15-10:00 and/or 16:15-18:00. The schedule is by arrangement. Duration: 2 semesters, shorter by arrangement, min. 9 dates

Clinic for pets, reptiles and birds

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

## 2131 TImaging diagnostics for pets

Preparation and interpretation of X-rays, ultrasound examinations and computer tomography of healthy and sick pets

## Reuschel, Dierig, Krull, Willems, Kopp, Küper, Schwartpaul, Steiner

S for the 6th/8th semester 12 hours max. 10 participants

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

Part 2 in the summer semester: This course builds on course part 1 in the winter semester. This is therefore an advantage, but not a mandatory requirement. The focus is on practical case studies organised by organ system. The recognition and description of abnormal diagnostic imaging findings using clinical case studies will be further practised and discussed.

#### Fortnightly event Wed 14:15-15:45 Start:

17.04.2024 Every 14 days on the following dates: 17.04.2024, 15.05.2024, 29.05.2024, 12.06.2024, 26.06.2024, 10.07.2024

Seminar room 1, 1st floor Klinikum Bünteweg

Registration: online

#### 2135 TTierinary care and rearing of native wild mammals

Reuschel, Willems, Kopp, Steiner, Küper, Schwartpaul



## S for the 6th/8th semester 6 hours max. 15 participants Subject area: Individual animals, other Focus: Pet diseases

Species-appropriate care, accommodation and therapy for native wild animals. The focus is on the wild animal species that occur in our region and are therefore presented in the practice/clinic.

**Fortnightly event** Wed 16:15-17:00 Start: 17.04.2024

Every 14 days on the following dates: 17.04.2024, 15.05.2024, 29.05.2024, 12.06.2024, 26.06.2024, 10.07.2024

Seminar room 1, 1st floor, Klinikum Bünteweg

Registration: online

## 2140 TCsurgical interventions on reptiles

Practical application and practice of the most common surgical procedures in reptiles. Hetterich, Knoll, Pees 

# **Exercise** for the **6th/8th** semester **10 hours** max. **10 participants** Subject area: **Individual animals** Focus: **Farm animalsOther**

The number of reptile owners in Germany is growing steadily and with it the challenge for vets to treat these special patients correctly.

In this compulsory elective, you will learn about the most common surgical procedures on reptiles and will be allowed to perform these yourself on dead animals. We will of course instruct you 🖫

In addition, on 26.06.24 you will each test a simulator in small groups that was developed as part of a dissertation. We look forward to seeing you!

Dates: Weekly event Wed 14-16h

19.06.24 14-16 h

26.06.24 14-16 h 16:30-18:30 h (Clinical Skills Lab, Simulator) 03.07.24 14-16 h 10.07.24 14-16 h 17.07.24 14-16 h Start: 19.06.24

### weekly event Wed 14-16 h Start: 19.06.24

Current information and the group allocation for the dates on 26.06.24 and 03.07.2024 will be forwarded to the participants by e-mail. Please check TiHo mails for messages! Subject to changes. 100% attendance is compulsory for the WP.

Clinical Skills Lab (Bischofsholer Damm) / Clinic for Pets, Reptiles and Birds (Bünteweg) Registration: online

## 2141 X-ray of reptiles

Interpretation of X-ray images of healthy and diseased reptiles Mathes, Hetterich

## S for the **4th/6th/8th** semester **12 hours 75%** max. **12 participants**

Speciality: Individual animals, 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 clinic

weekly event Wed 14:15-16:15 Start: 17.04.24 Start 17.04.24; 14:15

Further information will be announced in good time via email. Via video

recordings and online meetings on MS Teams Registration: online

## 2143 TNeurological key feature cases on diseases of the cranial region



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Neurological key feature cases, clinical reasoning Reeh. Schaper. Kleinsoraen, Volk. Tipold

S for the 6th/8th semester 10 hours max. 600 participants Subject area: Individual animals, diagnostics Focus: Small animal diseases

The most important neurological questions, cases, diagnostics and therapy are studied online in short sections. There are 20 case studies available in key feature format on the subject of the brain and cranial region. Approximately 3 questions per case are to be worked out online in CASUS.

Goals:

- Neurology for the practice - in a nutshell

- Clinical reasoning for the clarification of neurological patient cases

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

Block event 17.04.2024 - 17.07.2024 Start: 17.04.2024 Invitation will be sent by e-mail on 17.04.2024 Content-related questions can be asked during the course via CASUS or e-mail (if necessary, there will be a final appointment by appointment in MS Teams). If you have any organisational/technical questions, please contact Dr Kleinsorgen (elearning advisory service).

online case processing: CASUS

Registration: online

#### 2144 T Complication management in general anaesthesia Intervention training on the anaesthesia simulator



Schütter, Henze, Kästner

S/Ü for the 8th semester 8 hours 100% max. 12 participants Subject area: Individual animals Focus: Small animal diseases

Learning objectives:

- Recognising frequent anaesthesiological incidents and learning about special, situation-appropriate measures of

- Practising intervention measures on the simulator (iSimulate)

- Theory part:Causes and therapy of

hypotension, hypoxaemia, arrhythmias - Simulator training in small groups with debriefing

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**Block event** 5.7.2024 14:00 to 17:00 Introduction 6.7.2024 9:00 to 15:00 Exercise Start: 05.07.2024

Introduction: Seminar room, Klinik Bünteweg 9, 1st floor (glass room) Exercise: Clinic for small animals (room by arrangement)

Registration: online

Adrians, Nerschbach, Tipold

Exercise for the 6th/8th semester 2 hours max. 2 participants Subject area: Individual animals Focus: Small animal diseases Т

Run-along for WP hours (NOT run-along guota)

Block event Mon-Sun 19-23

Sat-Sun 9-13 Individual extension possible **50% of the attendance is certified as WP hours.** 

Small animal clinic Reaistration

Registration: via link "Registration: Clinic quota/WP evening treatment" on TiHoStudIS

## 2146 TLearning in motion through play - small animal neurology

**Problem-orientated running** 

Neßler

Ü for the 6th/8th semester 30 hours max. 100 participants Subject area: Individual animals, diagnostics 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 (approx. 2-4 km) with the dog, you will learn how to work up patients with a neurological disease and the most common pitfalls using real cases. In addition, documents for the preparation and follow-up of the cases are available via TiHoMoodle.

Block course to be completed independently and at any time 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, alternatively processing at home possible

Registration: online

## 2147 T Veterinary ophthalmology

Selected cross-species topics

## Busse, Boevé

V/S for the 6th/8th semester 14 hours max. 75 participants Subject area: Individual animals Specialisation: small animal diseases, equine diseases, pet diseases, infectious diseases

online lectures and teaching material for independent study, which are made available fortnightly (Moodle), with two (optional) interactive live events (see "Organisational matters")

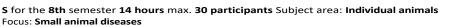
Block event Dates of the two live sessions will be announced in the course WP hours credited after passing knowledge checks on the individual topics - the 30 best participants qualify for interactive live sessions - participants in the live sessions receive 2 hours of additional WP hours credited per session

online + 2x interactive live sessions:

Registration: online

## 2148 TSpecial sedation and anaesthesia in dogs and cats

Kästner, Schütter, Neudeck, Henze, Tünsmeier



In addition to the lecture "Anaesthesiology and sedation in pets", knowledge of sedation, anaesthesia and pain therapy in small animals in special situations and with pathophysiological changes is taught. 1. Sedation, anxiolysis, immobilisation

2. Anaesthesia for endocrinological diseases ( D.M., M. addison, M. cushing, insulinoma, hypo-

- /hyperthyroidism ...)
- 3. Pregnant bitch/ caesarean section
- 4. Anaesthesia for animals with heart disease
- 5. Anaesthesia for animals with pleural/lung diseases (pneumothorax, liquidothorax, ...)
- 6. Anaesthesia for animals with liver and kidney disease, increased intracranial pressure
- 7. Interactive discussion of case studies (torsio ventriculi, pyometra, ruptured spleen, ...)

## fortnightly event Wed 14-16 h Start:

17.04.2024

Clinic Bünteweg 9, 1st floor, glazed seminar room no. B1 0281.1016

Registration: online

## 2149 X-ray diagnostics in dogs and cats - Part 2

Kramer

V/Ü for the 8th semester 20 hours 75% Focus: Small animal diseases

Subject area: Individual animals, diagnostics

In the second part, the basics of X-ray assessment of the thorax, abdomen and skeletal system developed in the first part are to be deepened through further case studies. For this purpose, in small groups (2-3 students)

## 2150 TWebinar "Selected topics from small animal medicine"

Online compulsory elective course

Bennmann, Betz, Busse, Goericke-Pesch, Kleinsorgen, Knell (Zurich) Kohn (Berlin), Ludewig (Vienna), Müller-Anders, Nolff (Zurich), Oechtering (Leipzig), Packeiser, Peppler (Gießen), Schulz (Munich), Volk, Wefstaedt, Wehner (Munich), Weingart (Berlin), Wess (Munich)

S for the 6th/8th semester 14 hours 75% max. 200 participants Subject area: Individual animals Specialisation: small animal diseases, nutritional physiology, infectious medicine

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, microphone and surveys provide the opportunity for interactive participation, discussion and questions. The inclusion of students from other veterinary faculties also promotes inter-university exchange.

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

Weekly event Wed 17:15-18:00 Start: 17.04.2024 Access will be sent after registration. Zoom

Registration: online

#### 2153 T Cytological diagnostics

Mischke, Ganter

## GV for the 6th/8th semester 12 hours max. 30 participants Subject area: Individual animals Focus: Small animal diseases

An introduction to the history, significance and nature of cytological diagnostics in animals (with a focus on small animals) is given. Techniques and collection of sample material and preparation of specimens are discussed for various organs. The basics of cytological diagnostics (examination procedure, differentiation of inflammation, infectious agents, differentiation of various tissues, recognition of malignancy) and cytological diagnostics for selected, clinically relevant organs are discussed. Slide quizzes and practical microscopy exercises serve to deepen the knowledge: Course 2157.

weekly event Wed 14-15 h Start: 17.04.2024

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

Registration: online

#### 2156 TE-Learning - CASUS Neurology

Intervertebral discs - Epilepsy - Neuroimmunology

Tipold, Kleinsorgen, Reeh, Schaper

S for the 6th/8th semester 12 hours max. 300 participants Subject area: Individual animals, diagnostics 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 about the content, a virtual classroom with MS teams can be organised at the end of the course by appointment. (Please contact Mrs Reeh or Mrs Tipold if required).

Block event 17.04.2024 - 17.07.2024

Start: 17.04.2024 Final event in the virtual classroom by arrangement. End of case processing 17.07.2024. 9 CASUS cases are worked on independently online. Hours are credited based on the number of cases worked on.

If you have any organisational questions, please contact Dr Kleinsorgen (e-learning advisory service).

online at home or computer at the TiHo

Registration: online

### 2157 T Microscopy exercises

(Practical course on "Cytological Diagnostics" - 2153 T / ONLY for participants of the lecture) Mischke S for the 6th/8th semester 10 hours max. 10 participants Subject area: Individual animals Focus: Small animal diseases

Contents:

Practical microscopy exercises of cytological preparations (inflammations, infectious agents, lymph nodes, skin nodes, spleen, liver, body cavity effusions). Attendance of the lecture "Cytological diagnostics" is desirable. Target:



TC

?

Independent recognition of inflammation, infectious agents and malignant tissue cells in cytological preparations. Learning the basics for the evaluation of cytological preparations of various organs. **Block event** Wed 18:00-19:30 05.06. / 12.06. / 19.06. / 26.06. / 03.07. / 10.07. / 17.07.2024 Start: 05.06.2024

Registration: online

## 2162 **T** Flock care (sheep/goat) Ganter, Ossowski, Bauer

#### for the 6th/8th semester 8 hours max. 3 participants Subject area: Farm animals Focus: Farm animalsClawed animals

Herd outings as part of the health service for small ruminants (GKIW) Hanover. Registration on the notice board in the clinic. The outings are all-day.

weekly event All-day excursions after announcement on the notice board in the clinic, probably from 8 a.m. to 5 p.m., usually on Tuesdays. Rides also take place during the semester holidays! Protective clothing is provided by the clinic Start: 15.04.2024

Dates irregular

8 hours per trip, overalls and plastic overshoes are provided by the clinic.

Departure: Clinic for small cloven-hoofed animals

Registration: Lists are displayed on the clinic notice board. Please register yourself. If you are unable to attend an appointment after you have registered, please arrange a replacement or let the office know.

#### 2164 The minipig as a patient

from Altrock, Höltig

S for the 6th/8th semester 4 hours 100% max. 10 participants

Speciality: individual animals, farm animals, aetiology, diagnostics Focus: farm animals, clovenhoofed animals, animal welfare

The miniature pig, also known as the "minipig" for short, is becoming increasingly popular as a pet and companion animal. It is therefore increasingly being presented as a patient in small animal practices. Nevertheless, it remains a farm animal from a legal perspective. The event "The minipig as a patient" addresses this tension. In a block course, the basics of minipig keeping (breeds, keeping, feeding, legal bases), but also routine treatments and interventions, frequently occurring (geriatric) diseases of minipigs and their treatment options as well as relevant animal diseases are discussed with the students in seminar form.

Block event Wednesday 15.05.2024; 14:15h - 16:00h Start: 15.05.2024

Clinic for small cloven-hoofed animals (seminar room)

Registration: online

### 2165 General animal training with the mini pig

We get to know the pig

Jeanette Niepold, Isabel Hennig-Pauka, Yvonne Armbrecht

Exercise for the 2nd semester 20 hours max. 20 participants Subject area: Individual animals, farm animals Focus: Farm animalsClawed 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 15 May 2024, for which two compulsory elective hours are credited, the students can train the chinc'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 Clovenhoofed Animals and is credited with one compulsory elective lesson.

Block course Mandatory introductory date on 15 May 2024 2-4 pm, all other dates in the current semester on your own responsibility during the usual clinic 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 outlet Registration: E-Mail (Jeanette.Niepold@tiho-hannover.de)

#### Block event 15.5.2024

Compulsory introduction on 15.5.2024 from 2 p.m.

Lecture hall of the Clinic for Small Cloven-hoofed Animals

and Outlets Registration: e-mail (Jeanette.Niepold@tiho-

hannover.de)

### 2166 TWhat do the lab results tell me?

PD Dr Esther Humann-Ziehank

for the 8th 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 17.04.23, 14:15-15:45 Start: 17.04.24 Lecture theatre of the clinic for small cloven-hoofed animals Registration: online 2167 Ph, T Participation in evening treatment v. Altrock, Wagener, Kiene, Buchallik-Schregel, Grozeva, Lippold Exercise for the 4th/6th/8th semester 3 hours max. 2 participants Subject area: Farm animals Examination and treatment of patients to impart skills and abilities in diagnostics and therapy Block course Mon-Fri 5-8 pm, longer or shorter duration possible Start: 15.04.24 Bring protective clothing. Please note further information. Clinic for small cloven-hoofed animals - Stables Registration: Online via "Clinic quotas/evening treatment" on TiHoStudIS 2181 TSpecial sedation, anaesthesia and pain therapy in horses Kästner, Wittenberg-Voges, Neudeck S for the 8th semester 14 hours max. 30 participants Subject area: Individual animals Focus: Equine diseases In addition to the lecture "Anaesthesiology and Sedation in Domestic Animals", this seminar aims to impart equine-specific knowledge of sedation and local anaesthesia for procedures on standing horses, equipment knowledge, premedication, anaesthesia induction, injection and inhalation anaesthesia, anaesthesia management, standing aid and euthanasia. fortnightly event Wed 14-16 h Start: 24.04.2024 Böhringer lecture theatre (demonstration hall), equine clinic Bünteweg 9 Registration: online 2183 TAvening and weekend treatment Feige, Geburek, Ohnesorge, Delling and employees for the **6th/8th** semester **4 hours** max. **2 participants** Subject area: **Individual animals** Focus: Equine diseases Evening and weekend treatment Block event Mon-Fri 4pm-8pm; Sat 10am-1pm daily event by list entry Start at 4 p.m. during the week; start at 10 a.m. at weekends, flexible duration, individually certified Please bring a smock and sturdy shoes Clinic for horses (meeting point registration) Registration: via link "Registration: Clinic quota/WP evening treatment" on TiHoStudIS 2187 TApplied practice in the clinic for horses Care of intensive care patients as part of the foal team Schwieder, Heun, Delarocque, Frers Ü for the 2nd/4th/6th/8th semester 000 hours max. 100 participants Speciality: Individual animals, research Practical exercise Block event Dates by arrangement Start: 15.04.2024 Clinic for horses Registration: Registration after consultation with the registration desk of the equine clinic or according to the current notice board. 2201 TAbend treatments (in small groups) Compulsory elective component as part of LV 0851 Lecturers of the clinic see LV 0851 GV for the 4th/6th semester 4 hours max. 3 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 Dates after prior online registration and entry in the list at the clinic registration desk. By arrangement, 50% of the maximum number of hours can be credited as a special elective within the framework of course 0851 For further information see LV 0851

Protective clothing is required! The information "Safety regulations" (see TiHoStudIS/Blackboard) must be observed.

## Building of the clinic for cattle

Registration: via link "Registration for clinic quota/WP evening treatment" on TiHoStudIS

| 2202 <b>T</b> | Diagnostic-therapeutic exercises on cattle (in small groups)<br>Compulsory elective component as part of LV 0852<br>Lecturers of the clinic see LV 0852   | <b>9</b>      |
|---------------|---|---------------|
|               | GV for the 6th/8th semester 4 hours max. 4 participants Subject area: Farm animals  |               |
|               | Focus: LivestockCattle<br>Examination and treatment of patients to teach skills and abilities in diagnostics and therapy, including   |               |
|               | surgical manipulation of patients<br>Block course Dates after prior online registration and entry in the list at the clinic registration desk. By<br>arrangement, 50% of the maximum number of hours can be credited as a special elective within the<br>framework of course 0852<br>For further information see LV 0852<br>Protective clothing is required!<br>The information "Safety regulations" (see TiHoStudIS/Blackboard) must be observed.  |               |
|               | Building of the clinic for cattle   |               |
|               | Registration: via link "Registration for clinic quota/WP evening treatment" on TiHoStudIS   |               |
| 2203          | TActual topics in the "Buiatrics" seminar series  | <b>(</b> )    |
|               | Employees of the clinic and other lecturers   | <b>6364</b>   |
|               | <b>S</b> for the <b>6th/8th</b> semester <b>11 hours</b> max. <b>80 participants</b> Subject area: <b>Farm animals</b><br>Focus: <b>LivestockCattle</b>   |               |
|               | This event will focus on current topics relating to buiatrics. The current state of knowledge and the significanc<br>practice will be presented and discussed in detail following the presentations.  | e for         |
|               | Block event Dates: 23.04./30.04./07.05/14.05/21.05./28.05./04.06./11.06./18.06./25.06./02.07. 16:00<br>17:00 in each case<br>Start: 23.04.24<br>7 of the 11 courses must be attended. Students in the 10th semester are also admitted.  | to            |
|               | The information "Safety regulations" (see TiHoStudIS/Blackboard) must be observed.  |               |
|               | Bayer Lecture Theatre Richard-Götze-Haus  |               |
|               | Registration: online  |               |
| 2205          | TKlinical endocrinology<br>Interpretation of laboratory results<br>Schmicke   | 9             |
|               | S for the 6th/8th semester 12 hours max. 20 participants<br>Speciality: individual animals, farm animals, diagnostics Focus: small animal diseases  |               |
|               | Application of endocrinological physiological and pathophysiological knowledge for the interpretation of lo<br>findings - across animal species   | aboratory     |
|               | <b>fortnightly event</b> Fri 14-16 h Start:<br>26.04.24   |               |
|               | Library of the Clinic for Cattle, Ri-Gö-Haus, 1st floor   |               |
|               | Registration: online  |               |
| 2206          | Technical excursions as part of integrated veterinary herd management<br>Hoedemaker, Gundling, Debertolis, Jensen, Kallmeyer  | <b>9</b>      |
|               | GV for the 6th/8th semester 8 hours max. 2 participants Subject area: Farm animals<br>Focus: LivestockCattle  |               |
|               | Teaching practical skills as part of the ITB  |               |
|               | 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/T3) as part of course 0846.<br>Protective clothing is required!<br>The information "Safety regulations" (see TiHoStudIS/Blackboard) must be observed.   |               |
|               | Clinic for cattle   |               |
|               | Registration: E-Mail (Natascha.Gundling@tiho-hannover.de)   |               |
| 2208          | TFarmSkills4Vets - the virtual dairy cow farm -<br>Self-directed learning of the basics of veterinary medicine  | m             |
|               | Hoedemaker, Hoischen  |               |
|               | C for the 2nd/4th/6th/8th semester 12 hours 100% Subject area: Farm animals<br>Focus: LivestockCattle   |               |
|               | Analysing herd problems and preventing diseases is becoming increasingly important in cattle practice.<br>herd animal medicine working group at the Clinic for Cattle has developed a virtual dairy cow f<br>"FarmSkills4Vets", in which the basics of herd animal medicine on dairy cow farms are taught in a prac<br>way. Students take on the role of the veterinarian in charge of the herd and can complete the virtual far<br>their own pace. | arm,<br>tical |

Explore a dairy cow farm in the form of a barn tour. 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.

Block course freely selectable

Registration: online

| 2209 | Tinfo day on the profession of cattle veterinarian<br>Heppelmann, Gundling and external speakers  | <u>9</u>    |
|------|---|-------------|
|      | <b>S</b> for the <b>2nd/4th/6th/8th</b> semester <b>4 hours 100%</b> max. <b>100 participants</b> Subject area: <b>Farm animals</b><br>Focus: <b>LivestockCattle</b>  |             |
|      | Students should gain knowledge of the various professional fields in which cattle veterinarians can work.   |             |
|      | Block event 25.05.2024  |             |
|      | Bayer lecture theatre, Richard-Götze-Haus, Bischofsholer Damm   |             |
|      | Registration: online  |             |
| 2210 | T2 KUHLE days with the clinic for cattle<br>Info day and practical day  | <u>9</u>    |
|      | Natascha Gundling and Maike Heppelmann  |             |
|      | <b>S</b> for the <b>2nd/4th</b> semester <b>7 hours 100%</b> max. <b>50 participants</b> Subject area: <b>Farm animals</b><br>Focus: <b>LivestockCattle</b>   |             |
|      | Info day on the profession of cattle veterinarian plus practical day to acquire initial skills in examining cattle  |             |
|      | Block event 25.05.2024 Info day<br>01.06.2024 Practical day<br>It is not possible to attend the practical day on your own. If possible, you should organise your ow<br>journey to the practical day. Half of the participants will have the opportunity to travel in the<br>clinic's own vehicles. Please bring clean protective clothing and phonendoscopes to the practical<br>day.           | 'n          |
|      | Bayer lecture theatre BiDamm<br>(information day) Dairy cow farm,<br>Scharnhorst (practice day)   |             |
|      | Registration: online  |             |
| 2221 | PhCasus cases for the anatomical dissection exercises II  | С           |
|      | Pfarrer, Brehm, Engelke, Koch, Hollenbach, Gniesmer   |             |
|      | for the <b>2nd</b> semester <b>14 hours 75%</b> max. <b>350 participants</b> Subject area: <b>Preclinical studies</b>   |             |
|      | Processing of casus cases accompanying and deepening the contents of the Anatomical Dissection Exercises  |             |
|      | weekly event Wed 14-16 h Start: 15.04.2024<br>The respective casus cases (www.tiho.casus.net) will be made available for 1 week in parallel to th<br>of the Anatomy II course.<br>From 75% of casus cases processed, the actual number of cases processed is counted as hours (the<br>cases must be fully processed, with a pass mark of 50%). Minimum processing time per case: 20<br>minutes! | -           |
|      | Casus cases (www.tiho.casus.net)  |             |
|      | Registration: online  |             |
| 2222 | PhCasus cases for the anatomical dissection exercises IV  | С           |
|      | Pfarrer, Brehm, Engelke, Koch, Hollenbach, Pankoke  |             |
|      | for the <b>4th</b> semester <b>14 hours 75%</b> max. <b>350 participants</b> Subject area: <b>Preclinical studies</b>   |             |
|      | Processing of casus cases to accompany and deepen the content of the anatomical dissection exercises  |             |
|      | weekly event Wed 14-16 h Start: 15.04.2024<br>The respective casus cases (www.tiho.casus.net) will be made available for 1 week in parallel to th<br>of the Anatomy IV course.<br>From 75% of casus cases processed, the actual number of cases processed is counted as hours (the<br>cases must be fully processed, with a pass mark of 50%). Minimum processing time per case: 20<br>minutes! | -           |
|      | Casus cases (www.tiho.casus.net)  |             |
|      | Registration: online  |             |
| 2223 | PhClinical-functional anatomy of pets   | <b>(</b> 33 |
| -    | Pfarrer, Engelke, Koch, Hollenbach, Böse, Pankoke, Reuschel, Krull, Dierig, Kopp, Willems   |             |
|      |   |             |

Exercise for the 4th semester 12 hours max. 30 participants Subject area: Individual animals, preclinic Focus: Pet diseases

Anatomy of pets, especially rabbits and guinea pigs (teeth, digestive system, urinary and reproductive system); with practical exercises (e.g. castration, dental revision) fortnightly event Wed 14-16 h Start: 24.04.2024 At least 4 appointments must be attended in order to receive credit for the hours actually worked! Bring smock and gloves!!! Presentations are to be given in groups. Dissection Room East, Anatomy Registration: online 2224 PhAnatomy of the dog on the virtual dissecting table Gniesmer, Pankoke Exercise for the 4th semester 12 hours max, 12 participants Subject area; Preclinic Focus: Small animal diseases Working on questions on macroscopic anatomy to accompany and deepen the content of the anatomical dissection exercises, including short presentations Fortnightly event Wed 14:15-15:45 Start: 17.04.2024 At least 4 appointments must be attended in order to receive credit for the hours actually worked! Students must bring their own textbooks and documents and give short presentations in groups. Studio of the Anatomical Institute Registration: online 2260 Ph, T Alternative and complementary methods to animal experiments m Seeaer V for the 2nd/4th/6th/8th semester 4 hours 100% max. 100 participants Field: Research, Other

Introduction to the topic of alternative and complementary methods to animal testing - Overview of current methods - Which endpoints can already be determined in vitro today? - How can these methods actually be used in the safety-toxicological testing of chemicals and pharmaceuticals?

**Block course** Lecture videos will be made available from 15 April. You can watch the videos asynchronously (until 19 May).

The learning control questions are to be completed by 19 May. If you have any questions, please contact bettina.seeger@tiho-hannover.de Registration: online

## 2261 Ph, T Basics of cell culture

Veterinarians in research

Seeger, Hiebl, Haiber, Robering

## S for the **4th/6th/8th** semester **16 hours** 75% max. 6 participants Subject area: Research Focus: Animal welfare

The aim of this course is to give prospective veterinarians the opportunity to familiarise themselves with professions outside of curative practice. Basic knowledge of cell culture can be an advantage for you if you are thinking about working in research later on, for example in the pharmaceutical industry, the chemical industry or at university. We look forward to giving you an insight into our cell culture laboratory and working with you to develop possibilities for replacing animal experiments.

Block course on Wednesdays on 17 April, 24 April, 15 May, 22 May, 29 May, 5 June, 3 July, 14:15 to 15:45 each day

Library, Food Toxicology, Building 123 Bischofsholer Damm, 2nd floor

Registration: online

## 2262 Practicalspecialisation in the analysis and toxicology of food residues and contaminants (0723)

Seeger, Haiber

## S/Ü for the 8th semester 4 hours 100% max. 40 participants Subject area: Food, research Focus: Nutritional physiology, pharmacology

This practical laboratory course is designed to give you the opportunity to carry out the demonstrated methods of food toxicology from course 0723, in which the experiments are demonstrated by video. This includes carrying out the bacterial mutagenicity test (Ames test) and an analytical part to consolidate what you have learnt. This course is particularly interesting for students who are interested in research. We look forward to your participation.

Block event Individual appointments (12.06. and 26.06., 14.15 - 15.45) Please bring your lab coats with you. Registration until 19.05.24

Chemistry lecture theatre (Building 123) Bischofsholer Damm Registration: E-Mail (bettina.seeger@tiho-hannover.de)

## 2280**Ph** С Practically relevantexamples and exercises for in-depth study of "Organic Chemistry in Veterinary Medicine" in CASUS n.n.Buchholz for the 2nd semester 10 hours max. 250 participants Subject area: Preclinical This 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. CASUS cases have been created from the summarised knowledge and are available for you as participants to work on Block course To be processed in the CASUS system from 24.04.2024 Start: 24.04.2024 Crediting scheme 10 h for the independent processing of CASUS cases. This WP takes place in CASUS. CASUS Registration: online 2301 Rapid molecular biological detection methods for food monitoring - how dol detect counterfeit food in just a few minutes? Amir Abdulmawjood Exercise for the 6th/8th semester 4 hours 100% max. 4 participants Subject area: Food The identification of mislabelled food 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. Standard PCR tests are used, 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 as well as PCR and LAMP protocols are worked on and carried out independently by the students using the latest standards. Block event Wed 13-17 h 29.05.2024 Start: 29.05.2024 If you have been allocated the event, please also contact Dr Abdulmawjood by email (amir.abdulmawiood@tiho-hannover.de). Event starts at 1 pm s.t.! In the library on the 3rd floor of the LMQS Registration: online 2302 Ph, T Commodity science - food from insects Grabowski, Hirnet Exercise for the 2nd/4th/6th/8th 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 24.4., 15.5., 12.6., 10.7. The event takes place on 4 dates, 3 of which must be attended. Institute for Food Quality and Safety Registration: online 2303 Ph, T Taster lesson: Sensory analysis in the food sector Siekmann Exercise for the 6th/8th semester 2 hours 100% max. 10 participants Subject area: Food Focus: Nutritional physiology You will be given a brief theoretical insight into the areas of application of sensory analyses of food. This is followed by practical exercises in which you will learn about both small successes and the challenges of this testing method. Block event Individual event! 1. Group: 8 May 2024, 16.00 - 17.30 OR 2. Group: 15 May 2024, 4.00 - 5.30 pm Individual event, categorisation in the confirmation e-mail, sample material: contains products of animal origin Maximum group size 5 students

Department of Food Technology and Chemistry, sensory kitchen, access door at Bayer-HS level in the Richard Götze building, 1st floor

Registration: E-Mail (Lisa.Siekmann@tiho-hannover.de)

| 2341             | TExcursion to a food production plant (of animal origin)   |    |
|------------------|--|----|
|                  | E for the 8th semester 5 hours 100% max. 15 participants Subject area: Farm animals, foodstuffs  |    |
|                  | Visit to a meat-processing food company, tour of production, presentation of quality assurance, presentation of official monitoring  | of |
|                  | Block event Date: After announcement on Wednesday (binding registration required)  |    |
|                  | Meat processing food company (location to be announced)  |    |
|                  | Registration: online   |    |
| 2342             | TPractical examples of risk assessment of substances in food and feed Lamps (BfR Berlin)   |    |
|                  | <b>Exercise</b> for the <b>6th/8th</b> semester <b>3 hours 100%</b> max. <b>6 participants</b> Subject area: <b>Food</b><br>Focus: <b>Nutritional physiology</b>   |    |
|                  | After a brief introduction, the potential risk of substances in food and/or feed is assessed and evaluated using<br>one or two current examples  |    |
|                  | Block event 28 June 2024, 2-5 p.m. Please<br>bring your laptop and calculator.<br>Registration until 14.06.2024  |    |
|                  | Food Toxicology, Building 123, Bischofsholer Damm, seminar room (2nd floor)  |    |
|                  | Registration: E-Mail (alfonso.lampen@bfr.bund.de)  |    |
| 2343             | Animal welfare scandals- current animal welfare in slaughterhouses - tasks and duties of given the second state we want the second state of the se | ?  |
|                  | Prof Bernhard Nowak, Dr Nadine Sudhaus-Jörn  |    |
|                  | <b>S</b> for the <b>6th/8th</b> semester <b>6 hours</b> max. <b>10 participants</b> Subject area: <b>Farm animals, foodstuffs</b><br>Focus: <b>Animal welfare</b>  |    |
|                  | Animal welfare problems at slaughterhouses repeatedly lead to scandals, with official veterinarians also<br>coming under public scrutiny. So what must the official veterinarian observe and, if necessary, penalise during<br>ante-mortem and post-mortem inspections so that such situations no longer occur in the future? The topic will<br>be developed using case studies.   | 9  |
|                  | <b>Block event</b> Wednesday, 5 June 2024, 2.15 p.m. to approx. 4 p.m. and Wednesday, 26 June 2024, 2.15 p.m. to approx. 4 p.m.  |    |
|                  | Bünteweg 2, TiHo-Tower, 2nd floor, room 217  |    |
|                  | Registration: online   |    |
| 2344             | TExcursion to a mare's milk farm   |    |
|                  | for the <b>6th/8th</b> semester <b>8 hours 100%</b> max. <b>25 participants</b><br>Speciality: <b>Individual animals, food</b>   |    |
|                  | Guided tour of a mare's milk farm (main topics: economic efficiency, hygiene) with tasting of mare's milk  |    |
|                  | The journey is expected to be by private car. (We can help you to organise car pools).   |    |
|                  | <b>Block event</b> Date: 22 May 2024, 8 a.m. Departure from the TiHo We are expected to be back around 4 p.m.  |    |
|                  | Handt GbR, Bockelnhagen  |    |
|                  | Registration: online   |    |
| 2346 <b>Ge</b> i | neral Summer School - Edible Insects<br>Summer School at the CZU in Prague<br>Hirnet, Grabowski  |    |
|                  | for the <b>2nd/4th/6th/8th/10th</b> semester <b>48 hours 100%</b> max. <b>5 participants</b> Subject area: Food  |    |
|                  | Insects as food?- is this the future?<br>For 5 days students will learn what goes into preparing insect- based food for human comsumption. This will cover insect rearing and breeding as well as processing and monitoring within the European Union regulatory framework.  |    |
|                  | Block event 2.9.2024 and 9 to 13.9. 2024<br>This course will be held in English. The virtual preliminary meeting on 2 Sept. 24 is obligatory. The<br>Summer School is funded by the ERASMUS exchange programme. Travel and accommodation will<br>be organised.   |    |
|                  | Prague   |    |
|                  |  |    |

Registration: online

| 2382 <b>T</b>                 | Infectious diseases in livestock<br>From bacteriological laboratory diagnostics to stock remediation<br>Kiene, Schaaf   |                  |
|-------------------------------|---|------------------|
|                               | S/Ü for the 6th/8th semester 14 hours 100% max. 12 participants Subject area: Farm animals, dia<br>Focus: farm animals, cloven-hoofed animals, infectious medicine  | agnostic         |
|                               | Using case studies from the livestock sector (small ruminants, pigs), students learn how to assess a problem", which investigations are necessary to eliminate the causes, how to detect bacterial pathogen how to treat/remediate the stock accordingly.<br>This compulsory elective course consists of a theoretical part (2 dates) and a practical part (2 dates, labo diagnostics and a stock drive).                               | is and           |
|                               | Block event 08.05.2024, 15.05.2024, 22.05.2024 (each 14.15-15.45) Excursion on 25.05.2024 (time by arrangement)   |                  |
|                               | Course room, Clinic for Small Cloven-hoofed Animals (08.05.2024,<br>22.05.2024) Exercise room, Institute of Microbiology (15.05.2024)   |                  |
|                               | Registration: online  |                  |
| 2386                          | <b>TBacterial and viral zoonoses</b><br>Becher, Gabriel, Volz (virology); Balkema-Buschmann (FLI); Dresen, Goethe, Kadlec, Valentin-Weigand<br>(microbiology); Strommenger (RKI), Jung-Schroers (fish diseases); Runge (LAVES)  | 🙊 T              |
|                               | S for the 4th/6th/8th semester 22 hours max. 25 participants Subject area: Aetiology<br>Focus: Infection medicine   |                  |
|                               | Etiology, epidemiology, pathogenesis, control and monitoring of bacterial and viral zoonoses  |                  |
|                               | Weekly event Wed 14:15-15:45 Start:<br>17.04.2024   |                  |
|                               | For further information see "Lecture notes" under StudIS  |                  |
|                               | Microbiology lecture theatre  |                  |
|                               | Registration: online  |                  |
| 2401                          | TTropical parasitoses and zoonoses  | ST               |
|                               | S for the 2nd/4th/6th/8th semester 24 hours max. 25 participants Subject area: Aetiology<br>Focus: Infection medicine   |                  |
|                               | Selected tropical parasitoses, other tropical diseases and parasitic zoonoses   |                  |
|                               | weekly event Wed 16:15-17:45 Start: 17.04.24  |                  |
|                               | Registration: online  |                  |
| 2410 <b>T</b>                 | Infectious Immunology<br>Infection immunology seminar on selected zoonotic pathogens<br>Lepenies  | <b>.</b>         |
|                               | <b>S</b> for the <b>6th/8th</b> semester <b>24 hours 100%</b> max. <b>10 participants</b><br>Speciality: <b>Etiology, diagnostics, research</b>   |                  |
|                               | Infection immunology research at the Institute of Immunology & RIZ focuses on the recognition of pathoge<br>the innate immune system and various pathogenicity mechanisms of zoonosis-relevant pathogens. The se<br>provides in-depth knowledge of immunology (innate and adaptive immune system, antigen presentation, c<br>and humoral immune response) and discusses current findings from the research field of infection immunolog | minar<br>ellular |
|                               | Block event Date n.V., probably held on a weekend (Saturday & Sunday, 9-17 hrs) as a face-to-face even<br>Date of the preliminary meeting will be announced!  | t                |
|                               | Research Centre for Emerging Infections and Zoonoses (RIZ), Bünteweg 17, seminar room 2nd floor   |                  |
|                               | Registration: online  |                  |
| 2425 <b>Ph</b> , <sup>-</sup> | T Dog trainer certification from the Lower Saxony Chamber of Veterinarians Bohnet   |                  |
|                               | Exercise for the 2nd/4th/6th/8th semester 4 hours max. 2 participants Subject area: Individual a Focus: Animal welfare  | animals          |
|                               | These are real examinations of dog trainers who require a licence from the competent veterinary of  | fice in          |

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 required expertise. The examination consists of a practical part followed by an expert discussion and is organised by the Chamber of Veterinary Surgeons in cooperation with the TiHo. Students learn about learning theory, behavioural development and expressive behaviour of dogs, dog education/training and legal aspects.

Block event Dates by arrangement

The maximum number of participants and total number of hours is per

appointment. Participants can take part in several sessions.

Students with dogs are available as a dog-owner team for the practical examination of dog trainers. Afterwards, students can take part in the expert discussion as listeners.

be. Students without dogs can take part in both parts as spectators/listeners.

TiHo dog park

Registration: E-Mail (willa.bohnet@tiho-hannover.de)

#### 2426 Ph. T Behavioural medicine horse Anamnesis, diagnosis and therapy of problem behaviour in horses Bohnet V/Ü for the 4th/6th/8th semester 18 hours max. 130 participants Speciality: Individual animals, farm animals Focus: Equine diseases, animal welfare Theoretical fundamentals problem behaviour on in horses incl. practical therapy approaches/case discussions Weekly event Wed 16:00-17:30 Start: 17.04.2024 Prerequisite is the successfully completed WP "Normal behaviour of horses" (1701) from the winter semester (at least 10 WP hours). Further information on the WP process at TiHo StudIS Bayer lecture theatre on Bünteweg Registration: online 2428 Ph, T Dealing with (difficult) cats in veterinary practice 98 m Bohnet, Länger S/Ü for the 4th/6th/8th semester 12 hours 100% max. 20 participants Subject area: Individual animals Focus: small animal diseases, animal welfare Cats are very defensive animals that can suddenly react with fierce resistance during veterinary treatment if their tolerance limits are exceeded. In addition to the (expressive) behaviour of cats in stressful situations, this course is particularly concerned with the safe and gentle handling of cats in veterinary practice. Both theoretical knowledge and practical skills are taught. weekly event Wed 14:00-15:30 Start: 29.05.2024 The attendance dates take place in the small animal clinic: Group 1 on 26.06. and 03.07., Group 2 on 10. and 17.07. Further information will follow in the course of the WP under TiHo StudIS. Theory: TiHoMoodle (asynchronous)

Practice: Clinic for Small Animals, TiHo Registration: **online** 

# 2441 Clinical-pathologicalcase demonstration (functional pathology) in small animals, small cloven-hoofed animals, cattle and horses

Beineke, Wohlsein, Puff, Gerhauser, Leitzen, Stoff, Hülskötter, Beythien, Feige, Geburek, Sieme, Ohnesorge, Wendt, von Altrock, Tipold, Volk, Kästner, Kramer, Heppelmann

## GV for the 6th/8th semester 22 hours 100% max. 100 participants

#### Speciality: Individual animals, farm animals

The aim of the course is to work together with the various clinics to retrospectively analyse the course of a disease on the basis of 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: 17.04.2024

Prerequisite for the award of a certificate: Regular participation in all courses (100%).

The event is cancelled on the following dates: 01.05. (Labour Day), 08.05. (General Assembly of Students) and 15 May (university sports festival).

#### Minimum number of participants: 7

Demonstration hall of the Institute of Pathology

Registration: online

#### 2442 TAselected topics of the special pathology of pets, 14-15 h Assessment of current dissection cases

Beineke, Wohlsein, Puff, Schaudien, Gerhauser, Leitzen, Stoff, Gregor, Hülskötter, Beythien

#### Ü for the 6th/8th semester 11 hours 100% max. 14 participants Speciality: individual animals, farm animals, diagnostics

The aim of the course is to use current 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:

17.04.2024

Prerequisite for the award of a certificate: Regular participation in all courses (100%).

The event is cancelled on the following dates: 01.05. (Labour Day)

## 



#### 08.05. (General Assembly of Students) and 15 May (university sports festival)

Minimum number of participants: 7

Same content as course no. 2444 Section hall and

adjoining rooms of the Institute of Pathology Registration:

online

| 2443 T<br>medicine | From chance observations to new diagnostic possibilities and therapeutic approaches in v e t e r i n a   | rу               |
|--------------------|--|------------------|
|                    | Puff   |                  |
|                    | S for the 6th/8th semester 4 hours 100% max. 30 participants Subject area: Research  |                  |
|                    | In the elective course offered, the importance of research for new diagnostic possibilities and therapeu approaches in veterinary medicine will be discussed using specific examples in order to demonstrate the basis evidence-based veterinary medicine.   |                  |
|                    | Block event 12.06.2024 from 14.15-15.45;<br>19.06.2024 from 14.15-15.45 hrs;<br>Prerequisite for awarding a certificate: Regular attendance (100%);<br>minimum number of participants 7;   |                  |
|                    | Registration: online   |                  |
| 2444               | TAselected topics in the special pathology of pets, 3-4 p.m.<br>Assessment of current dissection cases   | R                |
|                    | Beineke, Wohlsein, Puff, Schaudien, Gerhauser, Leitzen, Stoff, Gregor, Hülskötter, Beythien  |                  |
|                    | Ü for the <b>6th/8th</b> semester <b>11 hours 100%</b> max. <b>14 participants</b><br>Speciality: <b>individual animals, farm animals, diagnostics</b>   |                  |
|                    | The aim of the course is to use current selected cases from the sectional diagnostics of the Institute of Pathology<br>intensively demonstrate the problems of interpreting findings and making a diagnosis, as well as their different<br>diagnostic and pathogenetic consideration.  |                  |
|                    | weekly event Wed 15:00-15:45 Start:<br>17.04.2024<br>Prerequisite for the award of a certificate: Regular participation in all courses (100%).   |                  |
|                    | The event is cancelled on the following days:<br>01.05. (Labour Day)<br>08.05. (General Assembly of Students) and<br>15 May (university sports festival).  |                  |
|                    | Minimum number of participants: 7  |                  |
|                    | Same content as course no. 2442 Section hall and   |                  |
|                    | adjoining rooms of the Institute of Pathology Registration:  |                  |
|                    | online   |                  |
| 2451 <b>Ph. T</b>  | Biochemistry of infections   |                  |
| ,.                 | Meurer, von Köckritz-Blickwede, de Buhr, Marta Bonilla   |                  |
|                    | S for the 4th/6th/8th semester 14 hours 100% max. 4 participants Subject area: Research, pre-clinic  | :                |
|                    | Current research in infection biochemistry at the Institute of Biochemistry is concerned with the prec<br>characterisation of a new immune defence mechanism against infections: the formation of antimicrobial Di<br>networks in neutrophils. This compulsory elective provides practical and theoretical insights into every<br>scientific laboratory work at the Institute. The CASUS case "Visit to the carp farm" is used as a theoretic<br>basis. There will be a Corona-compliant practical part, which includes the stimulation of neutrophils from t<br>blood and the immunohistochemical analysis of the samples using confocal laser scanning microscopy.<br>What you can expect:<br>- "Laboratory work": You carry out the experiment independently - but of course under supervision. | NA<br>lay<br>cal |
|                    | - Laboratory work . For carry out the experiment independently - bat of consecutive and experiment.<br>- You will gain the underlying background by working on the CASUS case "Visit to the carp farm" a   | nd               |

exchanging ideas with the scientific staff during the laboratory work.

- The module is considered passed after the experiment has been carried out and the CASUS case has been successfully completed.

Block event The dates will be coordinated with the participants of the compulsory elective. Enquiries to: mkoeckbl@tiho-hannover.de

MS Teams, the link will be sent to you by email in good time.

The practical part takes place at the Institute of Biochemistry (Bünteweg 17, Building 218, 3rd floor) Registration: **online** 

## 2452 General occupational safety in veterinary medicine

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Maren von Köckritz-Blickwede, Laura Sadewater, Armina Richter, Katja Branitzki-Heinemann, Henrieke Meyer-Sievers

## GV for the 2nd/4th/6th/8th/10th semester 14 hours 75% max. 12 participants

Speciality: Etiology, Diagnostics, Research, Preclinical, Other

Veterinarians are at a relatively high risk of accidents at work, whether in the clinic, in the diagnostics laboratory or in research. In addition, veterinarians are also at a particular risk of infection with

The risk of infectious diseases, so-called zoonoses, i.e. diseases that can be transmitted from humans to animals and vice versa, is high. 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 Dates to be arranged after registration with all participants Appointment arrangement after registration with all participants

Institute of Biochemistry, Library

Registration: online

## 2462 T Pharmacological colloquium

Oltmanns, Harting, Meißner, Richter Assêncio



#### S for the 6th/8th semester 14 hours max. 45 participants Subject area: Research Focus: Pharmacology

Lectures on research topics in pharmacology and toxicology to deepen teaching content. Lecturers are employees and doctoral students of the Institute of Pharmacology.

fortnightly event Wed 16-18 h 24.04., 08.05., 22.05., 05.06., 19.06., 03.07. Start: 24.04.2024

AVO course room, ground floor Institute

Registration: online

## 2463 T Pharmacological practical course

Gernert, Meißner, Richter Assêncio, Bankstahl, Kunzmann, Ebert, and others

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C for the 6th semester 30 hours100% max. 30 participants Subject area: Research Focus: pharmacology, animal welfare

The practical course includes theoretical content, practical exercises via Moodle and practical exercises in presence.

Teaching of experimental techniques in pharmacology and toxicology through in vivo and in vitro experiments and computer simulations. In-depth teaching content on drug development, pharmacokinetics, isolated organs, cell culture, formal requirements for animal experiments, ethical aspects of animal experiments. Animal experiments include application techniques on mice, behavioural pharmacology, anaesthesiology.

weekly event Wed 14-16 h Start: 24.04.2024 The course programme will be presented on the 1st day of the course. Information, slides and interactive content will be made available on Moodle. The course is recognised by the LAVES as a certificate of competence for carrying out the techniques taught in animal experiments.

Classroom sessions take place in the course room on the ground floor of the Institute of Pharmacology.

Registration: online

## 2482 Ph, T Performance and training physiology

Breves, Engelke, Muscher-Banse et al.

## S for the 4th/6th/8th semester 22 hours max. 10 participants

Speciality: Individual animals, research

Students learn about functional processes in complex biological systems and how they can be influenced by current training programmes.

weekly event Wed 14:15-15:45 Start: 17.04.24

Preliminary meeting on 17.04.24 at 14:15h at the Institute of Physiology and Cell Biology. Registration: online

#### 2484 General ChatGPT - Thoughts: Help or humbug

Breves, Volk, Mazzuoli-Weber

for the 2nd/4th/6th/8th semester 6 hours max. 20 participants Subject area: Other

The aim of the course is to recognise and analyse specialist texts that have or have not been written using AI.



Institute of Physiology and Cell Biology

Registration: online

### 2485 General Green Office - Sustainability in university operations

#### Breves

## for the 2nd/4th/6th/8th semester 6 hours max. 30 participants Subject area: Other

Sustainability and climate protection are increasingly on the agenda for general university development. More and more universities are therefore setting up centralised institutions that can be used as a source of information, planning office and place of exchange. The aim of this WP is to initiate the introduction of a Green Office at the TiHo in dialogue with representatives of

already established regional sustainability offices. We want to discuss the following questions together: What types of Green Offices are there and how do they work? What are the advantages of a central contact point for sustainability endeavours? What could a Green Office at the TiHo look like and what is r e q u i r e d to establish one? This three-part elective course is organised by the SFF of the TiHo in cooperation with the IVSA and under the direction of Prof. Breves. We look forward to seeing you there!

Block event Wed 18-20 h 08.05.2024 15.05.2024 29.05.2024 Start: 08.05.2024

Seminar room in the Institute of Physiology and Cell Biology

Registration: online

### 2508 Ph Botanical meadow excursion

S. Aboling

E for the **2nd** semester **2 hours** 100% max. **15 participants** Subject area: **Preclinic** Focus: **Nutritional physiology** 

Appearance and characteristics of meadow plant species

#### Block event Friday, 10 May, 17 c.t. - 18:45 h

Meeting point: Entrance to Hermann-Löns-Park. This entrance is on Kirchröder Straße, diagonally opposite the Annastift tram stop on line 5.+++1 "only" take 15 people. You are welcome to give unused places to other people. At the beginning of the event, these "new" people must then cross out the registered person in the list of participants on site and enter their own name. However, you are also welcome to come to the meeting point "on suspicion": If a place became free without cancellation (subject to sanction), it would be filled with you. Of course, you can also be unlucky and no place is free. (Unobtrusive) dogs on a lead are permitted.

Hermann-Löns-Park

Registration: online

#### 2509 Ph Botanical spring excursion in the forest

### S. Aboling

E for the 2nd semester 2 hours 100% Focus: Nutritional physiology

Appearance and characteristics of spring-flowering plants in the forest

#### Block event Friday, 19 April, 17 c.t. - 18:45

Meeting point: benches at the entrance to the Eilenriede on Kleestraße. Coming from the TiHo, walk past the ice rink, under the railway bridge, after approx. 50 m turn left. Railway lines 4 and 5: Kantplatz stop. + + + 1 "only" take 15 people. You are welcome to give unused seats to other people. At the beginning of the event, these "new" people must then cross out the registered person in the list of participants on site and enter their own name. However, you are also welcome to come to the meeting point "on suspicion": If a place became free without cancellation (subject to sanction), it would be filled with you. Of course, you can also be unlucky and no place is free. (Unobtrusive) dogs on a lead are permitted.

Eilenriede city forest

Registration: online

## 2510 Ph Botanical summer excursion in the forest

Focus: Nutritional physiology

#### S. Aboling

E for the 2nd semester 2 hours 100%

max. 15 participants Subject area: Preclinic

max. 15 participants Subject area: Preclinic



Appearance and characteristics of summer flowering plants in the forest

Block event Friday, 7 June 2024, 5 p.m. - 6:45 p.m.

Meeting point: benches at the entrance to the Eilenriede on Kleestraße. Coming from the TiHo, walk past the ice rink, under the railway bridge, after approx. 50 m turn left. Railway lines 4 and 5: Kantplatz stop. + + + 1 "only" take 15 people. You are welcome to give unused seats to other people. At the beginning of the event, these "new" people must then cross out the registered person in the list of participants on site and enter their own name. However, you are also welcome to come to the meeting point "on suspicion": If a place is available without

If a place became available after cancellation (subject to sanctions), it would be filled by you. Of course, you can also be unlucky and no place becomes free. (Unobtrusive) dogs on a lead are permitted.

*Eilenriede city forest* Registration: **online** 

| 2511<br>General   | Botanical excursion at the still water S. Aboling   |           |
|-------------------|---|-----------|
|                   | E for the <b>2nd</b> semester <b>2 hours 100%</b> max. <b>15 participants</b> Subject area: <b>Preclinic</b> Focus: <b>Nutritional physiology</b>   |           |
|                   | Appearance and characteristics of species of marsh and aquatic plants   |           |
|                   | Block event Friday, 21.6.2024, 17 c.t 18:45 h<br>Meeting point: Entrance to Hermann-Löns-Park. This entrance is on Kirchröder Straße, diagonally<br>opposite the Annastift tram stop on line 5.+ + + I "only" take 15 people. You are welcome to giv<br>unused places to other people. At the beginning of the event, these "new" people must then cross<br>out the registered person in the list of participants on site and enter their own name. However,<br>they are also welcome to come to the meeting point "on suspicion": If a place became free<br>without cancellation (subject to sanction), it would be filled with you. Of course, you can also be<br>unlucky and no place is free. (Unobtrusive) dogs on a lead are permitted. | /e        |
|                   | Hermann-Löns-Park   |           |
|                   | Registration: online  |           |
| 2512 <b>Ph</b>    | Pasture grassland I: instructional video<br>with questions<br>Abolishing  | m         |
|                   | E for the <b>2nd</b> semester <b>2 hours</b> 100% max. <b>30 participants</b> Subject area: <b>Preclinic</b><br>Focus: Nutritional physiology   |           |
|                   | Veterinarily relevant plant species also include wild-growing forage, poisonous, medicinal and indicator plan<br>In this course, the most interesting representatives are presented where they grow and their morphologic<br>characteristics and constituents are explained. This is followed by information on the veterinary an<br>conservation significance of the species presented. Learning objectives 1. identify selected plant species at t<br>site, 2. recognise local biodiversity   | cal<br>nd |
|                   | Block course Teaching video online from 15.04.2024<br>Instructional video with questions for the recognition of successful participation  |           |
|                   | TiHoMoodle  |           |
|                   | Registration: online  |           |
| 2513 <b>Ph</b>    | Pasture grassland II: instructional video<br>with questions<br>Abolishing   | m         |
|                   | E for the <b>2nd</b> semester <b>2 hours</b> 100% max. <b>30 participants</b> Subject area: <b>Preclinic</b><br>Focus: Nutritional physiology   |           |
|                   | Veterinarily relevant plant species also include wild-growing forage, poisonous, medicinal and indicator plan<br>In this course, the most interesting representatives are presented where they grow and their morphologic<br>characteristics and constituents are explained. This is followed by information on the veterinary and<br>conservation significance of the species presented. Learning objectives 1. identify selected plant species at to<br>site, 2. recognise local biodiversity   | cal<br>nd |
|                   | Block course Teaching video online from 15.04.2024<br>Instructional video with questions on the recognition of successful participation   |           |
|                   | TiHoMoodle  |           |
|                   | Registration: online  |           |
| 2514 <b>Ph</b>    | Mushrooms: instructional video with<br>questions  | m         |
|                   | Abolishing  |           |
|                   | E for the <b>2nd</b> semester <b>2 hours</b> 100% max. <b>30 participants</b> Subject area: <b>Preclinic</b><br>Focus: Nutritional physiology   |           |
|                   | Fungi of veterinary relevance. In this course, the most interesting representatives are presented where th grow and their morphological characteristics and constituents are explained. This is followed by informati on the veterinary and conservation significance of the species presented. Learning objectives 1. ident. selected species at the site, 2. recognise local biodiversity   | on        |
|                   | Block course Teaching video online from 15.04.2024<br>Instructional video with questions on the recognition of successful participation   |           |
|                   | TiHoMoodle  |           |
|                   | Registration: online  |           |
| 2515 <b>PhPla</b> | ant selection by grazing animals I: instructional video with questions<br>Abolishing  | m         |
|                   | E for the <b>2nd</b> semester <b>2 hours 100%</b> max. <b>30 participants</b> Subject area: <b>Preclinic</b>  |           |

Veterinarily relevant plant species also include wild-growing forage, poisonous, medicinal and indicator plants. In this course, the most interesting representatives are presented at their place of growth

Focus: Nutritional physiology

|               | and their morphological characteristics and ingredients are explained. This is followed by information on the veterinary and nature conservation significance of the species presented. Learning objectives 1. identify selected plant species at the site, 2. recognise local biodiversity   |
|---------------|---|
|               | Block course Teaching video online from 15.04.2024<br>Instructional video with questions on the recognition of successful participation   |
|               | Moodle Platform Botany  |
|               | Registration: online  |
| 2516          | PhPlant selection by grazing animals II: instructional video with questions   |
|               | E for the <b>2nd</b> semester <b>2 hours 100%</b> max. <b>30 participants</b> Subject area: <b>Preclinic</b><br>Focus: <b>Nutritional physiology</b>  |
|               | Veterinarily relevant plant species also include wild-growing forage, poisonous, medicinal and indicator plants.<br>In this course, the most interesting representatives are presented where they grow and their morphological<br>characteristics and constituents are explained. This is followed by information on the veterinary and<br>conservation significance of the species presented. Learning objectives 1. identify selected plant species at the<br>site, 2. recognise local biodiversity   |
|               | Block course Teaching video online from 15.04.2024<br>Instructional video with questions on the recognition of successful participation   |
|               | TiHoMoodle  |
|               | Registration: online  |
| 2533 <b>T</b> | Basic calculations in feed science and animal nutrition   |
|               | GV for the 4th/6th/8th semester 2 hours100% max. 250 participants Subject area: Aetiology<br>Focus: Nutritional physiology  |
|               | In the analysis of feedstuffs and in the area of compound feed formulation, various calculations and conversions<br>are required in daily routine work in order to be able to compare feedstuffs, for example. Furthermore, different<br>dimensions and references are common in the formulation of minimum and maximum contents, which sometimes<br>lead to difficulties. Examples (and exercises) are used here t o practise the relevant skills.   |
|               | Block event Wed 14:15-15:45 24.04.2024<br>Live online connection via Microsoft TEAMS.   |
|               | Registration: <b>online</b>   |
| 2534 <b>T</b> | "Novel Feed" - hype or a real future for small and large animals?   |
|               | Visscher, Hankel, Hartung, Lingens, Wilke   |
|               | GV for the 2nd/4th/6th/8th/10th semester 2 hours 100% max. 15 participants<br>Speciality: individual animals, farm animals, other   |
|               | How will we feed our animals in the future? Where does the food for dogs and cats come from, where does the food for our farm animals come from? How many farm animals will there be and how will they be fed? What does this mean for the diet of dogs and cats? Is there enough protein for everyone? Meat for all or rather vegetable protein? Do we need completely different feed, "novel feeds"? Against the backdrop of a steadily growing world population, agriculture worldwide is facing two major challenges: Minimising negative environmental impacts and maximising food security. How can this be a c h i e v e d ? Keynote speeches and subsequent discussion. |
|               | Block event Wed 14:15-15:45 08.05.2024  |
|               | Lecture theatre Institute of Animal Nutrition   |
|               | Registration: online  |
| 2535 <b>T</b> | Dr-Feed (Digit-Real-Feed): Practical animal nutrition offered digitally   |
|               | GV for the 4th/6th/8th semester 2 hours 100% max. 15 participants Subject area: Aetiology<br>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

22.05.2024

Lecture theatre Institute of Animal Nutrition

| 2536 <b>T</b> | In vitro techniques in feed analysis<br>(with demonstrations and practical part)<br>Hartung, Höltershinken, Visscher, Weinberg  |                |
|---------------|---|----------------|
|               | GV for the 4th/6th/8th semester 4 hours 100% max. 10 participants Subject area: Aetiology Focus: Nutritional physiology   |                |
|               | In vitro techniques in feed science serve, among other things, to replace or supplement digestion experiment<br>with animals. For example, by simulating the digestive processes in the laboratory (e.g. artificial rumen an<br>other fermentation systems), information is obtained on degradation by the body's own enzymes (pepsin Ho<br>method) or by the rumen flora (RUSITEC) or on the rate of degradation.  | d              |
|               | Block event Wed 16:15-17:45 22.05.2024  |                |
|               | Lecture theatre Institute of Animal Nutrition   |                |
|               | Registration: online  |                |
| 2537          | TFood for "self-preparation" for dogs and cats<br>Hankel, Ullrich, Visscher, guest lecturers  | m              |
|               | GV for the 4th/6th/8th semester 2 hours 100% max. 250 participants Subject area: Individual animal<br>Focus: Nutritional physiology   | 5              |
|               | Preparing your own food for your pet is an expression of affection for them. There are a few things to bear in<br>mind, which we will discuss together.   |                |
|               | Block event 22.05.2024<br>Online from the above date.<br>See the respective details of the TiHoMoodle events for the processing period.   |                |
|               | Registration: <b>online</b>   |                |
| 2538 <b>T</b> | Storage pests and contamination on and in animal feed Lohkamp, Visscher   | M              |
|               | GV for the 4th/6th/8th semester 2 hours 100% max. 250 participants Subject area: Aetiology Focus: Nutritional physiology  |                |
|               | As with food intended for personal consumption, the owner of livestock and pets also assumes that feed is a<br>impeccable hygienic quality. Against this background, the event will characterise the hygienic quality of<br>animal feed in more detail, explain the development of deficiencies in the hygiene status (pest infestation) an<br>examine their significance for the feed and the animal.  | of .           |
|               | Block event 29.05.2024<br>Online from the above date.<br>See the respective details of the TiHoMoodle events for the processing period.   |                |
|               | Registration: <b>online</b>   |                |
| 2541          | Dietary feed and dietetics: differences from a veterinary point of view   | 0              |
|               | Hankel, Hartung, Lohkamp, Schubert, Ullrich, Visscher, Wilke  |                |
|               | GV for the 4th/6th/8th semester 2 hours 100% max. 15 participants   |                |
|               | Speciality: Individual animals, farm animals, aetiology Focus: Nutritional physiology<br>Dietetics encompasses all nutritional measures that serve to prevent or treat health disorders in livestock or<br>livestock lovers. The aim of dietetics is to minimise risks for the development of health disorders, to alleviate or<br>eliminate existing diseases and to counteract performance-related or disease-associated stress. In addition<br>dietetic approaches are becoming increasingly important when it comes to minimising the introduction or<br>zoonotic pathogens into the human food chain through special feeding measures (e.g. salmonella prophylaxis | or<br>n,<br>of |
|               | Block event Wed 14:15-15:4 26.06.2024   |                |
|               | Lecture theatre Institute of Animal Nutrition   |                |
|               | Registration: online  |                |
| 2542          | TSpecial challenges in the feeding of zoo animals<br>Guest lecturer, Spieß, Hankel, Visscher  | Т              |
|               | GV for the 4th/6th/8th semester 2 hours 100% max. 250 participants<br>Speciality: Individual animals, aetiology Focus: Nutritional physiology   |                |
|               | Feeding zoo animals is an exciting topic: many animal species, many different feeds, many things to conside<br>We will try to give you an overview. Our guest lecturer will report on his work at the zoo.  | r.             |

Block event Wed 14:15-15:45 03.07.2024

#### 2543 TPractice of feed optimisation with demonstration

Gickel, Godglück, Ullrich, Visscher, Wilke

GV for the 4th/6th/8th semester 2 hours 100% max. 20 participants Speciality: Individual animals, farm animals Focus: Nutritional physiology

An optimal feed composition is a basic prerequisite for health and performance, both for the individual animal and for the farm animal. We show you how to create feed recipes today using the appropriate software. **Block event** Wed 14:15-15:45 10.07.2024

Registration: online

## 2554 Ph, T Sampling, diagnosis, data collection and recording in experimental studies (at the institute) or in the field) and in experimental projects in animal nutrition

Godglück, Hankel, Hartung, Homann, Lingens, Schubert, Schwennen, Spieß, Ullrich, Weinberg, Wilke, Visscher

#### GV for the 4th/6th/8th semester 2 hours max. 20 participants

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

Gaining an initial insight into applied research at an early stage can give you an idea of the extent to which you would like to work in the field of animal nutrition after your studies.

Block course Total number of hours: depending on corresponding projects/events The WP hours are submitted at the end of the semester (30 September)

Registrations with indication of main areas of interest via e-mail: sekretariat-tierernaehrung@tiho- hannover.de Registration: online

#### 2562 Ph, T Online seminars on the welfare of farm animals

Spindler and Kemper

for the **2nd/4th/6th/8th** semester **9 hours 100%** 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 summer semester. These events will take  $p \mid a c e$  online mainly on weekdays in a time slot from 6-8 pm. Dates and topics have not yet been finalised.

Block event time window 14.04 - 31.08.2024

Students participating in the WP can attend three courses of their choice within the semester, which they can then have credited as WP. A certificate of attendance (issued by the NFT after attendance) must be sent to birgit.spindler@tiho-hannover.de for this purpose.

Online events at: https://www.fokus-tierwohl.de/de/veranstaltungen#!/

Registration: online

## 2563 Ph, T Practice ethics practice: Even a vet doesn't know everything. Joint resolution of ethical conflicts in small animal practice

Kunzmann, Voigt

## S for the 2nd/4th/6th/8th semester 12 hours 100% max. 16 participants

Speciality: Individual animals, other

We have invited an experienced vet to talk about her day-to-day work in small animal practice. This raises many moral questions that are rarely discussed in university. In the

"real" world, many things often look very different.

After a brief introduction, we will focus on specific case studies.

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

The seminar will take place in presence in the seminar room of the ITTN, building 116 at Braunschweiger Platz (above the CSL).

Block event Sat. 15.06.2024, 9-17 h Start: 15.06.2024 Please send enquiries to andrea.nelke@tiho-hannover.de

Seminar room in the Institute for Animal Hygiene, Animal Welfare and Farm Animal Ethology, Braunschweiger Platz (above the CSL) Bischofsholer Damm 15, Building 116

Registration: online

2564 Ph, T Practice-Ethics-Practice: Official veterinary service between law and reality, Part A

Kunzmann, Hartmann

S for the 2nd/4th/6th/8th semester 3 hour 100% max. 80 participants Subject area: Other



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#### Focus: Animal welfare

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. He is, among other things, Honorary Chairman of the Federal Association of Civil Servant Veterinarians and Vice President of the BTK.

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The event takes place asynchronously.

Block event 15.04.2024 Start: 15.04.2024 Part A and Part B can be attended INDEPENDENTLY from each other. The event takes place completely ASYNCHRONOUS! Please send enquiries to andrea.nelke@tiho-hannover.de Asynchronous on MS Teams

Registration: online

## 2565 Ph, T Precision Livestock Farming (PLF) - digital support for more animal health, animal welfare and economy!??

J. Probst, N. Volkmann, N. Kemper

**S** for the **6th/8th** semester **5 hours 100%** max. **20 participants** Subject area: **Farm animals** Focus: **Farm animalsCattle, farm animalsClawed animals, farm animalsPoultry, farm animalsOther** *Teaching of common applications in the field of precision livestock farming* 

Dates: 1) PLF in cattle farming (1WP) 2) PLF in pig farming (1WP) 3) Group work (1WP): PLF other animal species / advantages and disadvantages of digitalisation 4) Final event (2WP): 10-minute presentation per group of participants

Block event 1st date: 17.04.2024, 14-14:45 h 2. Date: 24.04.2024, 14-14:45 h 3. Date: 03.05.2024, 14-14:45 h

4. Date: 22.05.2024, 14-15:30 (venue to follow)

ITTN seminar room/ lecture theatre

Registration: online

#### 2566 Ph, T Protection against infection through hand hygiene

The need for hand washing, hand disinfection, glove management and skin protection to prevent the transmission of pathogens

Schulz

S/Ü for the 2nd/4th/6th/8th semester 4 hours 100% max. 12 participants Speciality: Individual animals, farm animals Focus: Infectious medicine

Hand hygiene is one of the most important procedures for preventing the transmission of pathogens in everyday clinical practice and in the livestock sector. Knowledge is imparted in the form of theory and practical exercises. Furthermore, course participants can test their learning success anonymously in an online quiz at the end of the course.

Block event The course will take place on 22.05.2024 from 14:00 - 17:30.

Seminar room of the Institute of Animal Hygiene, Animal Welfare and Farm

Animal Ethology Registration: online

## 2567 THaltung of shrimps in aquaculture w. excursion Stephanie Schäfers, Nicole Kemper E for the 2nd/4th/6th/8th semester 5 hours 100% max. 8 participants Subject area: Farm animals Focus: Animal welfare During an excursion to an aquaculture farm, participants learn about the facilities and measures required for animal welfare and hygiene in this agricultural sector. Block event 17.04.24 Departure from ITTN at 1.30 pm Travel to the farm takes place in the institute's own VW buses, independent travel is also possible

Meeting point for departure at the ITTN or independent journey to the farm by arrangement Registration: **online** 

#### 2568 PhStraußenhaltung in Germany

- a sought-after niche -

Spindler, Schwarz and Kemper

for the **2nd/4th** semester **4 hours100%** max. **20 participants** Subject area: **Farm animals** Focus: **Animal welfare** 

Tour of an ostrich farm

Focus: Development of husbandry requirements

Block event Excursion on 15.05.2024 from 14:00 - 19:30 Participation costs for the guided tour on site: 6 €/person (to be brought in cash) Departure at 14:00 from the Prakplatz at ITTN

The journey to the farm near Walsrode takes place in the Institute's VW buses.

#### 2569 Ph, T Specialised horse husbandry

Schäfers, Kemper

## S for the 2nd/4th/6th/8th/10th semester 18 hours 100% max. 8 participants Specialist area: Individual animals Focus: Animal welfare

During the event, special forms of horse husbandry will be presented. After an introductory seminar, there will be three excursions to the Hanover police riding unit, the racecourse in Langenhagen and the state stud farm in Celle.

Block event 08.05.23 2 p.m. s.t. Excursion Welfenplatz, Hanover

15.05.23 2 p.m. s.t. to 3.30 p.m. Seminar 22.05.24 morning excursion

12.06.24 Excursion 1 p.m. Departure ITTN

The seminar is organised by the students. Therefore, the preparation and presentation of a paper in a group of four is a prerequisite for participation in the course.

## The excursion destinations are served by our institute buses or can be reached on foot or by bicycle.

#### One excursion takes place in the morning!

Seminar: Seminar room ITTN

Excursions: Departure with the institute's own VW buses at the ITTN or own journey

Registration: online

#### 2570 Ph, T New selected questions of animal ethics

Kunzmann, Hartstang, Persson, Bollmeier, Messer, Nelke



#### V for the 2nd/4th/6th/8th semester 22 hours max. 160 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 discourses on animal ethics will be addressed.

The lecture series takes place ASYNCHRON: On Wednesdays from 2 pm, a lecture will be made available via MS Teams. This can then be attended digitally for one week. In addition, a small task must be solved within a week.

The WP hours are credited individually according to participation (2 WP hours/week).

Weekly event Wed 14:00 Start: 17.04.2024

The lecture videos can be watched and the accompanying task answered within a week.

#### Please send enquiries to andrea.nelke@tiho-hannover.de

The event takes place ASYNCHRON over MS Teams. You will be automatically added to the "team" of the event after registration via TiHoStudIS. Further instructions will be posted in the team.

## Registration: online

## 2571 Ph, T Praxis-Ethik-Praxis: Amtstierärztlicher Dienst zwischen Recht und Realität, Teil B

Kunzmann, Hartmann

## S for the 2nd/4th/6th/8th semester 3 hours 100% max. 80 participants

Specialist area: individual animals, farm animals, food, other Focus: animal welfare

The article discusses key areas of conflict, but also solutions to ethical issues in official veterinary fields of activity. The speaker, Dr M. Hartmann, draws on experience from many levels of the profession. He is, among other t h i n g s, Honorary Chairman of the Federal Association of Civil Servant Veterinarians and Vice President of the BTK.

The event takes place asynchronously.

Block event 15.04.2024

Start: 15.04.2024 Part A and Part B can be attended INDEPENDENTLY. The event takes place ASYNCHRONOUSLY! Please send enquiries to andrea.nelke@tiho-hannover.de

MS Teams

Registration: online

#### 2572 Ph, T Factors influencing the development of sternum damage in laying hens

Stefanie Petow, Birgit Spindler and Nicole Kemper

## for the **2nd/4th/6th/8th** semester **5 hours 100%** max. **130 participants** Subject area: **Farm animals** Focus: **Animal welfare**

In two lecture units, the first part deals with the factors that can contribute to the development of sternum damage in laying hens. The second part focuses on the physiology of the laying hen, in particular endocrinology and bone physiology.

Damage to the sternum, which includes fractures and deformities of the bone, is not only a serious animal welfare problem, but also an economic one. Fractures of the sternum

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cause pain and thus lead to a long-term restriction of the animal's movement. This can lead to major losses because the animals can no longer reach the food and water sources and can no longer visit the nests. Up to 100% of the hens in a flock can be affected by sternum damage. Block course The teaching units are available asynchronously via TiHoMoodle from 15.04.24 and can be accessed flexibly until 31.07.2024. After successful completion of a learning objective test (multiple choice test in TiHoMoodle), 5 WP hours are recognised. Registration: online 2573 Ph, T Tricky questions in equine medicine П Feige, Geburek, Kunzmann for the 2nd/4th/6th/8th/10th semester 4 hours max. 40 participants Speciality: Individual animals, other The seminar will discuss specific cases in which veterinary, ethical and legal perspectives must come together to find suitable solutions. Block event Block event , 16-18 h 15.05.2024 and 22.05.2024 Start: 15.05.2024 Please send enquiries to andrea.nelke@tiho-hannover.de MS Teams: You will be invited to join the team in good time. Please participate with picture (camera) and sound (microphone)! Registration: online 2574 Ph, T Practice-Ethics-Practice: A live conversation with Martin Hartmann about the official veterinary service Kunzmann, Hartmann S for the 2nd/4th/6th/8th semester 3 hours 100% max. 80 participants Subject area: Other Focus: Animal welfare In his video contributions, Dr M. Hartmann has given many students an insight into the various dimensions of the official veterinary service. The event offers the opportunity to talk to him about this himself. Especially for those who have taken WP 2564 and 2571 Part A and/or Part B this semester or earlier. Block event 24.05.2024, 2 pm s.t.-5 pm Start: 24.05.2024 Please send enquiries to andrea.nelke@tiho-hannover.de Practice room ITTN Registration: online 2575 Ph, T Forum Ethics: Open Space - Your questions Т Kunzmann, Hartstang for the 2nd/4th/6th/8th/10th semester 3 hours 100% max. 40 participants Subject area: Other The WP asks for an open space to take up and discuss the students' questions. Topics will be requested before the event. Block event 19.06.2024, 16-18 h Start: 19.06.2024 Please send enquiries to andrea.nelke@tiho-hannover.de MS Teams: You will be invited to join the team in good time. Please participate with picture (camera) and sound (microphone)! Registration: online 2576 General Ethics Forum: "I can't do it." Stress during studies П Kunzmann, Nelke S for the 2nd/4th/6th/8th semester 3 hours 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 29 May 2024, 4-6 p.m. Start: 29.05.2024

Please send enquiries to andrea.nelke@tiho-

hannover.de MS Teams

The event takes place SYNCHRONOUSLY via MS Teams.

Registration: online

#### 2577 General reading course: Sources of animal ethics

Kunzmann, Persson, Hartstang, Meiritz

#### S for the 2nd/4th/6th/8th/10th semester 28 hours 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 (excerpts) will be read and discussed, for example texts by Peter Singer and Tom Regan.

fortnightly event Wed 16-18 h

Registration: online

| 2578              | THaustiere in the (social) media   |           |  |  |  |  |
|-------------------|--|-----------|--|--|--|--|
|                   | V for the <b>2nd/4th/6th/8th</b> semester <b>2 hours</b> max. <b>100 participants</b> Subject area: <b>Individual an</b><br>Focus: <b>Animal welfare</b>   | imals     |  |  |  |  |
|                   | The (social) media are full of videos that are relevant to animal welfare, which spread quickly and en<br>imitation. Examples are used to show how to recognise animal suffering in the media, how to deal wit<br>what countermeasures the veterinary profession could take.<br>The aim of the WP is to sharpen the understanding of the role and representation of animals in (socia<br>and at the same time to scrutinise one's own viewing habits.<br>The WP is organised in cooperation with JLU Giessen. It is an online event. | th it and |  |  |  |  |
|                   | Block course Individual appointments Tuesdays, 17:15-18:45<br>23.04. Animals in advertising (Prof. S. Krämer)<br>07.05. Introduction to media theory (J. Krüger)<br>18.06. Animal images in animal-assisted services (T. Braun)<br>02.07. Animals in literature (L. Bauer)<br>16.07. Pets on social media. (Dr M. Fels)<br><b>2 WP hours are recognised per appointment.</b>   |           |  |  |  |  |
|                   | Online   |           |  |  |  |  |
|                   | Registration: Via short survey on TiHoStudis (homepage)  |           |  |  |  |  |
| 2583              | Species protection and environmental policy<br>Hadrys, Schierwater   | <b>9</b>  |  |  |  |  |
|                   | Exercise for the 2nd/4th/6th semester 80 hours max. 4 participants Subject area: Preclinic   |           |  |  |  |  |
|                   | Field practical course: Practical exercises to determine and evaluate a)species communities,<br>Abundances<br>and diversity in the field and b)nature conservation units in European nature reserves (e.g. Crau, Cama<br>southern France).<br>Seminar: Introduction to the habitats of the practical training area. Biology and ecology of the anima<br>to be studied during the practical course. Modern working methods for measuring diversity at genetic of  | l groups  |  |  |  |  |
|                   | Block event Expected from 21.06. to 30.06.   |           |  |  |  |  |
|                   | Crau, Camargue in the south of France  |           |  |  |  |  |
|                   | Registration: Institute of Animal Ecology  |           |  |  |  |  |
| 2601 <b>Ph, T</b> | Conservation and genome editing of livestock breeds - animal breeding methods of the future<br>Small   | <u>9</u>  |  |  |  |  |
|                   | V for the <b>4th/6th/8th</b> semester <b>4 hours 100%</b> max. <b>90 participants</b><br>Speciality: <b>individual animals, farm animals, research, preclinical studies</b>  |           |  |  |  |  |
|                   | Conservation of endangered livestock breeds through the use of data and gene banks, as well as biotechnological approaches.  |           |  |  |  |  |
|                   | Block event Wed 15:15-16:45<br>24.4. and 8.5. 3-5 p.m. in <i>the lecture</i>   |           |  |  |  |  |
|                   | theatre of animal genomics   |           |  |  |  |  |
|                   | Registration: online   |           |  |  |  |  |
| 2602              | TInternship "Research in Genomics"<br>Experience research live   | <u>9</u>  |  |  |  |  |

Butchers and employees

C for the 6th/8th/10th semester 12 hours 100% max. 4 participants Subject area: Research Focus: Farm animalsOther

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 do we find DNA and RNA? 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 hrs.

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

#### 2609 General data analysis and bioinformatics with R

Klaus Jung and employees

## V for the 2nd/4th/6th/8th semester 28 hours 75% max. 25 participants

Field: Research, Other

- Introduction to R programming, data structures & data processing in R

- Statistical principles for bioinformatic analyses (statistical testing, regression and variance analysis methods, correlation analysis),

- Fundamentals of bioinformatics in R (sequence alignment, phylogenetic analyses, analysis of molecular high-throughput data from microarray or sequencing experiments, normalisation, visualisation, multiple testing, gene-set enrichment analyses, machine learning, 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.

Weekly event Wed 16:15-17:45 Start:

17.04.2024

#### The software R is freely available, the installation is explained at the beginning of the course.

MS Teams

Registration: online

### 2621 TWcience & (pain) research in veterinary medicine

Stoffregen, Kästner, Kreienbrock, Nicolaisen & guest lecturers



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## S for the 2nd/4th/6th/8th semester 12 hours 75% max. 30 participants Speciality: individual animals, farm animals, diagnostics, research, other

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 presented research projects include (probably!) grimace scales, pain acoustics, nociception and evidence of pain scales.

Upon completion, participants will be able to answer the key question of the course and develop the outline of a research question, structure and evaluate a research process. The course is also 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 or preparatory work is required for participation - only motivation to think on the spot and (if interested) actively participate.

To successfully complete the course, 75% attendance is required. If interested, individual students can give a short presentation in the last teaching unit (development and presentation of material) and thus receive additional WP hours depending on the effort involved.

Fortnightly event Fri 14:15-15:45 Start:

26.04.2024

#### Start 2nd(!) week of lectures (alternating with course x0811 Anaesthesiology)

TiHo-Tower, 8th floor, seminar room 829

Registration: online

#### 2642 Ph, T Exotic wild animals in bioscientific and biomedical research: Model system Mouse lemur, bat and Etruscan shrew

Schmidt, Silberstein, Lahusen

## V/Ü for the 2nd/4th semester 12 hours 100% max. 36 participants Speciality: Individual animals, diagnostics, research

4 h lecture, 8 h exercises in small groups

Theoretical teaching of the basics of biology and the bioscientific and biomedical significance of the primate, bat and Etruscan shrew model systems. Introduction to the basics of management and breeding as well as the veterinary care of animal colonies. Demonstrations on animal handling, lifelong individual identification and recognition, determination of reproductive status and health monitoring.

**Block event** Lecture 16:00 to 18:00 on 15 May 2024 and 22 May 2024; weekend event, all day from 9:00 to 17:00, available dates: 25.05.2024 1st group of 12 students (9:00 -

17:00)

26.05.2024 2nd group of 12 students (9:00 - 17:00) 01.06.2024 3rd group of 12 students (9:00 - 17:00) Start: 15.05.2024 Venue will be communicated.

Registration: online

Schmidt, bicycle game

#### 2643 PhBasics of the control and evolution of behaviour



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V for the 2nd/4th semester 24 hours 75% max. 15 participants Subject area: Preclinic

History of behavioural research, behavioural genetics, concepts of behavioural ecology, sexual selection, predator-prey relationships, orientation & migration, endogenous control of behaviour, ontogeny & plasticity of behaviour, learning & memory, behavioural ecology and sociobiology of wild animals.

weekly event Wed 14:30-16:00

| 2661 <b>Reco</b>  | gnising and evaluating findings<br>Elisabeth large supplement                          | relevant to animal welfare in pigs  | T              |
|-------------------|--|---|----------------|
|                   | S for the 6th/8th semester 6 h   | ours 75% max. 10 participants Subject area: Farm animals  |                |
|                   | The seminar provides an overview   | v of the diagnosis and evaluation of animal welfare-relevant finding  | ıs in farmed ı |
|                   | Block event 19.04. and 26.04., e<br>Minimum number of participant                      |   |                |
|                   | online   |   |                |
|                   | Registration: E-Mail (elisabeth.g  | rosse.beilage@tiho-hannover.de)   |                |
| 2662              | TExamination of pigs on farms wi   | th established pig practitioners  | <u></u>        |
|                   | Hennig-Pauka (organiser), veterino   | arians in private practice in NRW and Baden-Württemberg   |                |
|                   | E for the <b>4th/6th/8th</b> semester<br>Focus: Farm animalsClawed anim                | r <b>10 hours</b> max. <b>10 participants</b> Subject area: <b>Farm animals</b><br>nals   |                |
|                   | Students from the 4th semester o specialise in the care of pig herds                   | nwards can experience the day-to-day work of practising profession<br>at first hand.  | nals who       |
|                   |  | ents will be organised individually if interested<br>eduling individually with Isabel Hennig-Pauka  |                |
|                   | Veterinary practices in NRW or Bac   | len-Württemberg   |                |
|                   | Registration: E-Mail (isabel.henn  | ig-pauka@tiho-hannover.de)  |                |
| 2663 <b>Ph</b>    | Understanding pig farms<br>What influences anim  | al health in pig herds - initial insights into pig farming  | m              |
|                   | Annika Joost, Isabel Hennig-Pauk   | a (organiser)   |                |
|                   | Ü for the <b>2nd/4th</b> semester <b>8 h</b><br>Focus: <b>Farm animalsClawed ani</b> n | nours 100% max. 250 participants Subject area: Farm animals nals  |                |
|                   | course. In 360° barn tours, you v  | h the animal environment of pigs on your computer as part of<br>will gradually learn about things that influence the health of pigs<br>aimed at those who have never had contact with pigs but are curr       | and solve      |
|                   |  | ourse will be activated<br>Il environment of pigs on your computer as part of a Moodle<br>ease send an e-mail to: Annika.Joost@tiho-hannover.de   | course.        |
|                   | Moodle   |   |                |
|                   | Registration: online   |   |                |
| 2683 <b>Ph, T</b> | Conventional and digital X-ray in co   | omparison   | 👧 C            |
|                   | Seifert, Lüpke, Fewson   |   |                |
|                   | Speciality: individual animals,  | ster 4 hours <mark>100%</mark> max. 48 participants<br>farm animals, diagnostics, research, preclinical, other Focus:<br>iseases, pet diseases, farm animalsCattle, farm animalsClawed                        |                |
|                   | system (conventional) and storage  | sion on a modern veterinary X-ray system, taking X-ray images wi<br>ge-foil system (digital), influence of various exposure parameters<br>al X-ray, interactive image post-processing on the monitor (e.g. zo | on image       |
|                   |  | n and dates according to the notice board<br>are 6 courses with the same content, each with a maximum c   | of             |
|                   | X-ray room of the Department of  | General Radiology and Medical Physics   |                |
|                   | Registration: online   |   |                |
| 2684              | PhEscape-Room Physics  |   | <b>G</b>       |
|                   | Save Schrödinger's cat   |   |                |
|                   | Bräuninger, Lüpke, Seifert   | 1000V   |                |
|                   | U for the <b>2nd</b> semester <b>3 hour</b> s  | s <b>100%</b> max. <b>45 participants</b> Subject area: <b>Preclinic</b>  |                |
|                   |  | different puzzles have to be solved one after the<br>order to find the key to leave the room. These   |                |

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. In the process

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.

#### Block event Dates by arrangement

Groups of three people are formed for the escape room. Please register online first (e-mail with the names of the three participants) and select the date you would like to take part in at our office. The dates will be during the lecture period of the summer semester. Meeting point: In front of the General Radiology and Medical Physics office (basement). Further information can be found on our homepage.

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)

## 2701 Ph, T Introduction to the study of fish

## Fish as patients

Jung-Schroers and employees

## for the **2nd/4th/6th/8th** semester **28 hours75%** max. **12 participants** Speciality: **Individual animals, farm animals, diagnostics** Focus: **Pet diseases**

Health assessment of fish:

- Instructions for the clinical examination of a fish stock and individual animals,
- Selection of fish from a stock for further investigation,
- Clinical examination of selected fish for symptoms of disease
- Anaesthesia of fish
- Sampling of live fish under anaesthesia
- Dissection of fish and sampling for further analyses

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

17.04.2024

## The event will take place in the Department of Fish Diseases.

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

Registration: online

## 2703 Ph, T Infectious diseases in fish (online course)

Infections caused by parasites, fungi, bacteria and viruses in fish Jung-Schroers, Adamek and colleagues for the 4th/6th/8th semester 30 hours 75% max. 50 participants Speciality: Individual animals, farm animals, diagnostics Focus: Infectious medicine

Infections caused by parasites, fungi, bacteria and viruses in fish

Block event Lecture slides and video clips for self-study. Finally, answering a questionnaire.

Online (asynchronous)

Registration: online

### 2705 Ph, T Fish diseases: Advanced course 1 (online course)

### Advanced course 1

Jung-Schroers and employees

## for the **2nd/4th/6th/8th** semester **10 hours75%** max. **50 participants** Speciality: **Individual animals, farm animals, diagnostics** Focus: **Pet diseases**

Special aspects of fish medicine are discussed: - Anaesthesia

- Therapy

- Imaging procedures

- Prophylaxis

Block event Lecture slides and video clips for self-study. Finally, answering a questionnaire. Please note: Participation is only possible if an "Introduction to the diagnosis of fish diseases" course has previously been attended. This must be proven by submitting a completed questionnaire from the course.

Online (asynchronous)

Registration: online

## 2706 Ph, T Fish diseases: Advanced course 2 (online course)

#### Advanced course 2

Jung-Schroers and employees

for the **2nd/4th/6th/8th** semester **10 hours** 75% max. 50 participants Speciality: Individual animals, farm animals, diagnostics Focus: Pet diseases

Special aspects of fish medicine are discussed:

- Reproduction - Physiology

- Reproduction - Pathology

- Diseases of shrimps



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|---|---------|--------|------|-------|-------|

Block event Lecture slides and video clips for self-study. Finally, answering a questionnaire. Please note: Participation is only possible if an "Introduction to the diagnosis of fish diseases" course has previously been attended. This must be proven by submitting a completed questionnaire from the course.

Online (asynchronous)

Registration: online

#### 2708 Ph, T Veterinary care of fish: What do I need to know about fish aquaculture? Aquatic habitat, aquaculture methods, fish species

Jung-Schroers, Adamek and colleagues

### S for the 2nd/4th/6th/8th semester 28 hours 75% max. 12 participants

Speciality: Livestock, Preclinic

- Influence of water on the health of fish, relevant water parameters
- Living conditions in natural waters Water in

aquaculture

- Aquaculture in ponds: Fauna and biocoenoses, fish fauna in water bodies
- Aquaculture methods of important fish species
- Occurrence and way of life of aquaristically important fish groups
- weekly event Wed 16:00-17:30 Start: 17.04.24

The course is held in English.

Department of Fish Diseases and Fish Husbandry, Bünteweg 17, Building 227

Registration: online

## 2716 Ph, T Management of fish stocks in carp pond farms

General introduction to the veterinary care of food fish stocks using the example of a carp farm Jung-Schroers, Bröcker, Miebach and employees

S for the 2nd/4th/6th/8th semester 8 hours 100% max. 8 participants Subject area: Farm animals

Introduction to carp farming, procedures for the veterinary care of carp farms, assessment of fish husbandry and health, visit to a carp pond farm

**Block event** On 17.04.24 there will be a preliminary discussion via MS Teams at 2 pm. The link to the preliminary meeting will be sent out after course registration. The dates for the excursions will be assigned at this time. Each student will go to a stock on one day by arrangement and then examine the fish. Start: 17.04.2024

The meeting point is the Fish Diseases and Fishkeeping Department, Bünteweg 17, Building 227 Registration: online

#### 2717 Ph, T Management of fish stocks in trout ponds

General introduction to the veterinary care of food fish stocks using the example of a trout farm Jung-Schroers, Bröcker, Miebach and employees

S for the 2nd/4th/6th/8th semester 8 hours 100% max. 8 participants Subject area: Farm animals

Introduction to the keeping and rearing of trout, occurrence of diseases in trout stocks,

Assessment of fish husbandry and health, visit to a trout pond farm

**Block event** On 17.04.24 there will be a preliminary discussion via MS Teams at 2 pm. The link to the preliminary meeting will be sent out after course registration. The dates for the excursions will be allocated at this time. Each student will go to a stock on one day by arrangement and then examine the fish. Start: 17.04.2024

The meeting point is the Fish Diseases and Fishkeeping Department, Bünteweg 17, Building 227 Registration: online

#### 2718 Ph, T Management of fish stocks in large aquaria (online)

Introduction to the veterinary care of fish stocks in large aquaria

Jung-Schroers and employees

S for the 2nd/4th/6th/8th semester 6 hours 100% max. 16 participants Subject area: Individual animals Focus: Pet diseases

Veterinary care of fish and other aquatic animals in large aquaria.

Block course online Start:

17.04.2024

A video on the care of fish in large aquariums is available under Studis.

Registration: online



## 2719 Ph, T Case studies on the diagnosis of diseases in a trout stock (CASUS cases)

CASUS case studies Jung-Schroers, Adamek and colleagues

for the 4th/6th/8th semester 6 hours 75% max. 20 participants Subject area: Farm animals, aetiology

Procedure for diagnosing diseases in a fish stock and drawing up an action plan

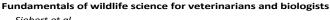
Block event online event

Access to the case studies will be activated for participants after registration.

Online (asynchronous)

Registration: online

#### 2741 **T** Wildlife biology



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Siebert et al.

#### V for the 6th/8th semester 20 hours max. 50 participants Speciality: individual animals, farm animals, research, other

Wildlife science; wildlife diseases, infectious diseases and zoonoses (basics of knowledge of native wildlife species, their diseases and recording methods are taught)

weekly event Wed 17-19 h Start: 17.04.2024

#### Lectures are offered online. Some events are specifically held in person. There are no lectures on the dates of the University Sports Festival and the General Assembly.

#### Contact for queries: Dr Friederike Gethöffer

friederike.gethoeffer@tiho-hannover.de MS teams, anatomy lecture theatre

Registration: online

#### 2742 Distance injection in domestic and wild animals

Voiqt, Böer, Kästner

## V/Ü for the 8th/10th semester 20 hours 100% max. 50 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:

Lectures: Legislation on handling firearms, firearms law, other legislation, devices and projectiles 1) (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), written (P2) and oral examination (P3) on firearms law and the handling of firearms.

Block course 1st lectures+exercises 18.04.2024 to 28.04.2024 (modules T1-9, P1):

- 6 evenings ONLINE each 18-19:30h:

Thu 18.04., Mon 22.04., Tue 23.04., Wed 24.04., Thu 25.04., Fri 26.04.

- (all evenings as MS Teams ONLINE event)
- Sat. 27.04. 9-18h. PRESENCE. lecture and exercises
- Sun. 28.04. 9-15h. PRESENCE. exercises and exam P1

2. Shooting test (P1)

- Sun 28.04. after the exercises

3. written examination (P2)

- in PRESENCE on an evening between 06.05. and 17.05. from 6pm

- plus 2 appointment offers, one of which must be taken up

- Duration: max. 60 min

- Date and exact time will be agreed with the entire course after the start

4. Oral examination (P3)

- in PRESENCE on a weekday in May between 8am and 5pm

Exam in groups of 2 with a fixed time

- Please enquire about exemption from the PJ for this

examination day at the relevant institutions

Start: 18.04.24

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 the 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.

- 5. oral PRESENCE exam P3 in groups of 2 with appointments on fixed days, max. 20min per group
- 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".

## 2761 THealth and ecology of marine mammals

#### Siebert et al.

#### for the **4th/6th/8th** semester **38 hours** max. **8 participants** Speciality: **Individual animals, diagnostics, research**

Teaching methods for gaining knowledge of the health status and ecology of marine mammals REGISTRATION BY E-MAIL ONLY!

Block course Mon-Fri 09-16 hrs 1

week in September/October

The period will be announced at a later date via the semester mailing list! Low-cost accommodation in the youth hostel in Büsum or Heide possible. NO reimbursement of costs and booking by the ITAW. ONLY REGISTRATIONS BY E-MAIL will be accepted!

Institute for Terrestrial and Aquatic Wildlife Research of the University of Veterinary Medicine Hannover Foundation, Werftstr. 6, 25761 Büsum

Registration: E-Mail (ursula.siebert@tiho-hannover.de)

#### 2781 General introduction to literature research

Osigus, Leonhard-Marek

## S/Ü for the 2nd/4th/6th/8th semester 2 hours max. 10 participants Subject area: Other

Literature search, search strategies, relevant databases, (scientific) search engines & discovery services

Fortnightly event Dates by arrangement (biblio@tiho-hannover.de)

Online via MS Teams

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

## 2782 General reference management with EndNote 21

Introduction and practical exercises

Skiba, Osigus, Leonhard-Marek

S/Ü for the 2nd/4th/6th/8th semester 2 hours 100% max. 20 participants Subject area: Other

Setting up an EndNote library, entering new references, searching from EndNote, importing references and PDFs, grouping references, citation styles, collaboration with MS Word (CWYW)

Block event Wed 14:15-16:15 24.04.2024

Additional courses are held every 2 weeks, which can be recognised as WP upon informal request to the lecturers.

Online via MS Teams

Registration: online

#### 2783 General literature research - what, where and how?

Leonhard-Marek, Osigus

S/Ü for the 2nd/4th/6th/8th semester 3 hours 100% max. 20 participants Subject area: Other

Literature search, search strategies, relevant databases, (scientific) search engines & discovery services Block event Wed 14:15-17:15 17.04.2024

Additional courses are held every 2 weeks, which can be recognised as WP upon informal request to the lecturers.

Online via MS Teams

Registration: online

#### 2784 General introduction to reference management - EndNote 21

Skiba, Osigus, Leonhard-Marek

S/Ü for the 2nd/4th/6th/8th semester 2 hours max. 10 participants Subject area: Other

Setting up an EndNote library, entering new references, searching from EndNote, importing references and PDFs, grouping references, citation styles, collaboration with MS Word (CWYW)

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## Registration: E-Mail (biblio@tiho-hannover.de)

## 2785 General case-based training in literature research and management

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

Leonhard-Marek, Osigus

**S** for the **2nd/4th/6th/8th** 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 managing your data with EndNote.

Block event Start: 15.04.2024

End: 19 July 2024

Online via CASUS

Registration: online

#### 2786 General research data management

#### An introduction to research data management

Skiba, Osigus, Leonhard-Marek

## S/Ü for the 2nd/4th/6th/8th semester 2 hours 100% 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 08.05.2024; 14:15-16:15

Online via MS Teams

Registration: online

#### 2787 General research data management

#### An introduction to research data management

Skiba, Osigus, Leonhard-Marek

S/Ü for the 2nd/4th/6th/8th semester 2 hours 100% max. 10 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.

Fortnightly event Dates by arrangement (biblio@tiho-hannover.de)

Online via MS Teams

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

#### 2800 T Reproductive medicine and biotechnology - specialising in farm animals Virtual Centre for Reproductive Medicine Lower Saxony

Bajcsy, Hoedemaker, Sieme, Waberski, Wendt and others Lecturers of the Virtual Centre

#### S for the 6th semester 42 hours max. 8 participants Subject area: Farm animals Focus: Farm animalsCattle, farm animalsClawed animals, farm animalsPoultry

Reproductive medicine across species: Part 1: male and female fertility, fertility disorders, insemination, embryo transfer. Herd care, modern biotechnologies in reproduction; theoretical introduction; practical exercises and excursions planned for WS 2024/25 (part 2).

## weekly event Wed 14:00-17:00 Preliminary

topics:

- Insemination management for pigs
- Biotechnology in animal breeding (FLI Neustadt, excursion)
- Insemination of cattle/Skills Lab
- Stallions used for insemination (Celle State Stud, excursion)
- KB-Station Bull (Master cattle, excursion)
- ART Team Kinderwunsch (Aegi Hanover)
- Gynaecology and insemination of horses
- Current research topics Repro pig
- Insemination of poultry (FLI Neustadt, excursion)
- Current cases in gynaecology and andrology Pig
- Herd medicine in dairy cattle
- Pregnancy diagnostics for livestock
- Spermatological assays for fertility prognosis (FLI Neustadt, excursion)

Registration: online

#### 2801 TTag of the Virtual Centre for Reproductive Medicine Lower Saxony

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Bajcsy, Hoedemaker, Waberski and others Lecturers of the Virtual Centre

V for the 6th/8th semester 5 hours 100% max. 50 participants Subject area: Farm animals Focus: Farm animalsCattle, Farm animalsClawed animals

Lectures on current research topics in the field of reproductive medicine and biotechnology at the Virtual Centre for Reproductive Medicine Lower Saxony

Block event One-off event on 14.06.2024 Start: 14.06.2024

| 2802 <b>T</b> | Current research topics in reproductive medicine in pigs  |
|---------------|---|
|               | V for the <b>6th/8th</b> semester <b>3 hours<mark>100%</mark> max. 200 participants</b> Subject area: <b>Farm animals</b><br>Focus: <b>Farm animalsClawed animals</b>                           |
|               | Current research topics   |
|               | Block event Wed 14:00-17:00 One-off<br>event Date to be announced later   |
|               | Registration: online  |
| 2803 <b>T</b> | Reproductive medicine in research   |
|               | Goericke-Pesch, Körber  |
|               | S/Ü for the 6th/8th semester 28 hours 100% max. 4 participants Subject area: Research<br>Focus: Small animal diseases   |
|               | The aim is, after instruction in immunohistochemical methods and image analysis, to analyse samples for a joint scientific project and to prepare the data for an English-language publication. |
|               | weekly event Wed 14:00-16:00 Start: 17.04.2024  |
|               | Reproductive medicine unit of the clinics, Bünteweg 15  |
|               | Registration: online  |
| 2821          | TPractice of zoo and wild animal husbandry<br>Demonstrations and exercises on the animal populations of zoological gardens and animal parks   |
|               | Michael Böer, Klaus Brunsing, Viktor Molnar, Thomas Hennig and others.  |
|               | E for the 6th/8th semester 30 hours 75% max. 20 participants Subject area: Individual animals   |
|               | Basics of vet. med. Management of wild animal populations ex situ, 5 afternoons, Wednesdays   |
|               | Block event Wed 14:30-18:30   |
|               | 1. Date:Wed 17 April 2024 Bison enclosure Springe<br>2. Date Wed 24 April 2024 Hanover Zoo  |
|               | 3. Date Wed 24 April 2024 Harover 200   |
|               | 4. Date Wed 15 May 2024 " "   |
|               | 5. Date Wed 29 May 2024 Serengetipark   |
|               | Hodenhagen Start: 17.04.2024  |
|               | Clothing for all weathers, sturdy shoes, binoculars, notes.   |
|               | nota bene:  |
|               | Bison enclosure Springe:<br>- Free  |
|               | admission   |
|               | Hanover Zoo:  |
|               | - A contribution towards expenses of  |
|               | approx. 5€ (suitable) /person /visit estimated.   |
|               | Serengetipark date:<br>Main entrance: Arrive by car and stop in the right-hand lane in front of the ticket office or take the   |
|               | train and walk 40 minutes through the fields from Hodenhagen railway station to the main  |
|               | entrance of the Serengeti Park.   |
|               | Free admission is also possible here!!! However, you must bring €6.50/person - suitable -<br>for the bus trip through the animal enclosures   |
|               | We reserve the right to change dates at short notice.   |
|               | signed. M. Böer   |
|               | - Bison enclosure Springe   |
|               | - Serengetipark Hodenhagen<br>- Hanover Zoo   |

Registration: online