



GS-VMAS Newsletter







September, 2017

The Graduate School for Veterinary Medicine and Animal Sciences has now been active for 1,5 year. The interest to arrange courses within GS-VMAS as well as the interest to participate in our courses has increased significantly during this time. It is with pleasure that we now can present the list of courses planned for autumn 2017 and for 2018.

Upcoming PhD courses autumn 2017

During the autumn 2017 we have the following upcoming courses:

- Introduction to SAS software for statistical analyses, 2 credits
- Animal ethics, 3 credits and Animal ethics, 4,5 credits
- Environmental impact from animal production, 2 credits
- Genome Analysis, 10, credits
- Basic laboratory quality assurance for PhD-projects, 1,5 credits
- Pharmacodynamics from an in vivo perspective, 5 credits

 PVS0095 Introduction to the SAS software for statistical analyses, 2 credits PhD course arranged by Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS) Course date: October 2nd – October 6th, 2017 Location: Uppsala Aim of the course The aim of this course is to introduce the students to the SAS software, so that the students after the course can perform data handling and editing, as well as basic statistical analyses on their own. Content <ul style="list-style-type: none">- Introduction to SAS- How to read the manuals- How to get your data into SAS- How to check and edit your data- How to create new variables- Merging data files- Basic statistical analyses, t-test, X2-test, analysis of variance (PROC GLM)- Simulation in SAS- Course evaluation Prerequisites MSc in Animal Science or Biology or equivalent knowledge. Information and application: www.slu.se/gs-vmas-courses Course leader: Nils Lundheim, nilslundheim@slu.se Last date for application: September 4th, 2017	 PVG0036 / PVG0037 Animal Ethics, 3 or 4,5 credits PhD course arranged by Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS) Course date: October 9th – November 23rd (3 credits) / December 14th (4,5 credits), 2017 Location: Ulluna, Uppsala with video link to other SLU campuses upon request Content and pedagogical approach The course contains lectures and mandatory seminars giving an overview of differences between ethics and legislation, elements in ethical argumentation, relation between animal science and animal ethics, development of normative ethical theories used in animal ethics, and an introduction to research issues e.g. historical and societal outcomes of human-animal interaction, reasons for human use of animals, critical aspects of this use in terms of unnecessary suffering, integrity, responsiveness, fitness, interests, emotional and needs for both humans and animals. Participant's doctoral projects will be presented and included in the elaboration of these issues. In order to learn ethics practice in relating to other's opinions, formulating relevant questions and exercises in ethical argumentation is necessary. Hence the course offers mandatory seminars for discussion of different themes while active participation is required to create a learning community over the course period. Further there will be a web-based task for discussion and reflection of a final animal ethics issue. Guest lecturers will be invited to present their specific field of competence. PhD students taking the 4,5 credits course are requested to write an essay on an ethical issue in the form of a research paper presented at a final seminar for all course participants. Prerequisites Admitted to a postgraduate program in natural or social science, or humanities or arts, or to a residence program in e.g. veterinary medicine. Information and application: http://www.slu.se/gs-vmas-courses Course leader: Helena Röklinberg, helena.roklinberg@slu.se Last date for application: September 11th, 2017	 PVS0136 Environmental impact from animal production, 2 credits PhD course arranged by Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS) Course date: October 16th – 20th, 2017 Location: Uppsala Content The course is built around the feed cycle, i.e. the production of feed crops, their storage, handling and feeding, and the recirculation of animal wastes to new feed crops. The contribution from each step as well as the aggregated environmental impact of entire production systems of different ruminants are highlighted. Animal-specific properties of dairy and beef cattle, horses, pigs and poultry that are linked to environmental issues are covered. Greenhouse gases and losses of P and reactive N are the emphasized issues. Self-sufficiency systems serve as a model, but the actual situation with global trade of feeds, fertilizers and other inputs is also covered. The course time is equally divided between lectures and group work. Prerequisites Admitted to a postgraduate program in animal science, biology, veterinary medicine, food science, nutrition, nursing, or related subjects, or to a residency program in veterinary science. Admittance to a postgraduate program in social sciences with a dissertation topic related to the environmental effects of animal production would also qualify for course participation. Information and application: www.slu.se/gs-vmas-courses Course leader: Torsten Eriksson, torsten.eriksson@slu.se Last date for application: September 18th, 2017
 PVS0137 Genome analysis, 10 credits PhD course arranged by Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS) Course date: October 31th, 2017 – January 12th, 2017 Location: Uppsala Content The contents of the course are to a large extent built upon recent advances within the field of genome analyses in humans, animals and plants. A large part of the course is application oriented e.g. human genetics. Genome science is evolving rapidly and the course is based on recent research developments in methodologies and theories. The following group discussions or computer-based exercises are included in the course: <ul style="list-style-type: none">- Genetic diversity and polymorphisms- Molecular phylogenomics (computer exercise)- Structural and comparative genomics- Gene mapping and functional genomics- Genome-wide association analyses (GWAS) (computer exercise)- Genome-wide association and quantitative trait loci (QTL) analysis- High throughput genome sequencing- High throughput genome sequencing (computer exercise)- Epigenetics and epigenomics- Genome editing and transgenic animals Prerequisites Admitted to a postgraduate program in animal science, biology, veterinary medicine, food science, nutrition, nursing, or related subjects, or to a residency program in veterinary science. Information and application: www.slu.se/gs-vmas-courses Course leader: Sofia Mikko, sofia.mikko@slu.se Last date for application: October 3rd, 2017	 PVG0034 Basic laboratory quality assurance for PhD-projects, 1,5 credits PhD course arranged by Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS) Course date: November 27th – December 8th, 2017 Location: Uppsala Aim of the course After completing the course the student should be able to: <ul style="list-style-type: none">- Explain how a basic validation of a laboratory method, for example an ELISA, including precision, accuracy and repeatability, linearly and recovery should be performed and be able to interpret the results.- Describe how their study design and laboratory work should be planned to minimize the effects of inter-lab assay imprecision and/or limited linearity.- Explain and evaluate measuring and relevance of limit of detection, limit of quantification, limit of blank.- Use practices in a correct way for accurate measurement of substances, including cleaning and control weighing.- Write a good standard operation procedure (SOP) and "Lab Day" and describe the purpose and effects these routines may have on their laboratory work. Prerequisites Admitted to a postgraduate program in veterinary medicine, animal science or to a residency or other training program in veterinary science. Information and application: http://www.slu.se/gs-vmas-courses Course leader: Inger Lilleshök, inger.lilleshok@slu.se Last date for application: October 30th, 2017	 PVS0145 Pharmacodynamics from an in vivo perspective, 5 credits PhD course arranged by Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS) Course date: December 11-15th, 2017 Location: Uppsala Content The purpose of this unique course is to provide in-depth knowledge on in vivo pharmacodynamics. Lectures cover modern methods of the determinants of the course: intensity and duration in vivo pharmacokinetics, biomarker response and how to assess these in biomedical research. Topics such as receptor pharmacology, potency, efficacy, turnover, functional adaptation, cell growth models, oscillations, dose-response-time data analysis, time delays between physiology and pharmacodynamics. Target mediated drug disposition of small and large molecules are covered in lectures and computer simulation exercises. The participants will apply their acquired knowledge during seminars and computer sessions on projects to be defined. Analysis and interpretation of pharmacokinetic data from animals and humans. Typical real life Case Studies are discussed during the course. Experienced lecturers from academia and pharma industry will lecture and take in the course. Parts of the course have been taught internationally in Europe, the US and Asia during the last 25 years. Each participant will get a copy of the following program on a USB stick with a 3-month trial period. The best selling textbook PVS02 Data Analysis: Concepts and Applications, if not will be used. PVS02 Swedish.com Prerequisites To be eligible for the course the equivalent of 180 higher education credits within one of the following programs: Veterinary (including residence candidates), pharmacy, general science (in chemistry, biology or physics), chemical/biotechnology engineering, medical or biotechnology programs. Information and application: www.slu.se/gs-vmas-courses Course leader: Johan Gabriësson, johan.gabriesson@slu.se Last date for application: November 13th, 2017

Please visit www.slu.se/gs-vmas-planned-courses for information on upcoming courses. For more information and on-line application, please visit: www.slu.se/gs-vmas-courses.

Upcoming seminars/workshops autumn 2017

We also have a couple of upcoming seminars:

- Seminar Embryo and Metabolism, 14th Sept 2017
- Workshop i doktorandprojekthandledning för handledare, 5-6th October

EMBRYO AND METABOLISM
Welcome to a research seminar arranged by the Centre for Reproductive Biology in Uppsala, CRB, and the Graduate School for Veterinary Medicine and Animal Sciences, GS-VMAS, SLU.
Date: September 14, 13.30-16.30, including coffee break
Location: Room "Replabok", entrance K3 in VHC building, 5th vlg.26, SLU, Uppsala

Program
13.30 Impact of the in vivo and in vitro environment on oocyte and embryo quality: basic and applied aspects. Christiane Streppel, Prof. Dr. med. vet., Universitätsklinikum Gießen
14.00 Embryo morphology of human embryos as prognostic estimates of pregnancy and live birth. Jan Hübner, MD, PhD, Carl von Linné Clinic, Lippsta
14.30 Coffee break
15.00 Cumulus cells protect the oocyte against saturated fatty acid stress. Helle Aalderink, PhD/ChM, Department Reproduction (ICAR), Faculty of Veterinary Medicine, Utrecht University
15.30 Lipid metabolism – the key to improved survival of in vitro produced bovine embryos following cryopreservation? Janaína Passos, Adjunct professor, Principal Scientist, Green Technology Resource Institute (Inepet) Lusa
16.00 Discussion

You are also most welcome the following day, September 15, when Denise Laskowski from the Division of Reproduction, Department of Clinical Sciences, SLU, will defend her doctoral thesis *Sexual and the early bovine embryo - Influence on in vitro development, gene expression and morphology at O2-15 in room "Replabok"*, entrance floor, VHC building, SLU, Uppsala

Contact: Renée Båge
Information: renee.bage@slu.se

Workshop i doktorandprojekthandledning
Fokus: Doktorandprojekt – handledning och genomförande
Arrangeras av VHS forskarskola Graduate School for Veterinary Medicine and Animal Sciences (GS-VMAS)
5-6 oktober, 2017
Lokal: Tamngården 1, Uppsala

Torsdag 5 oktober kl. 10.00-17.00
Projektlidningens grunder och verktyg – metoderna tränas i relation till ett eget projekt

Freitag 6 oktober kl. 8.30-15.00
Projektlidningens grunder och verktyg – fortsättning
13.00 Diskussion med en erfaren doktorandhandledare (Nils Lundshöj)

Ta med ett eget projekt, föredrägsvis ett doktorandprojekt, pågående eller planerat.
Lunch och kaffe ingår.

Information och anmälan: gs-vmas@slu.se
Kursledare: Niklas Lång

Sista anmälningsdag: 22 september, 2017

Planned PhD courses 2018

During 2018 the following courses are planned:

- Animal Assisted Intervention, 3 or 5 credits
- Basic course for cell culture, 2 credits
- Beef and lamb production systems and their impact on meat quality, 4 credits
- Introduction to Bioinformatics, 10 credits
- Construction of trial protocols for controlled clinical trials, 1,5 credits
- Flow cytometry, cell analysis and sorting, 5 credits
- Genome Analysis, 10 credits
- GIS in animal science, 2 credits
- Introduction to hyperspectral imaging with focus on near infrared spectroscopy in Livestock, Agricultural and Veterinary Sciences, 3 credits
- Linear Models in Animal Breeding, 3 credits
- Microbial Sequencing and Genomics
- Nutritional Physiology, 7,5 credits
- Orthopaedic diagnostics in animals, 3 credits
- Reproducibility in Research with a focus on data produced by R, 2 credits
- Sperm Quality Evaluation, 2 credits
- Epigenetics and reproduction, 1,5 credits

SLU's general courses for PhD students

For more information regarding SLU's general courses in transferable skills, please visit <https://internt.slu.se/en/support-services/education/doctoral-education1/doctoral-courses/>

Do you have an idea for a seminar or a workshop?

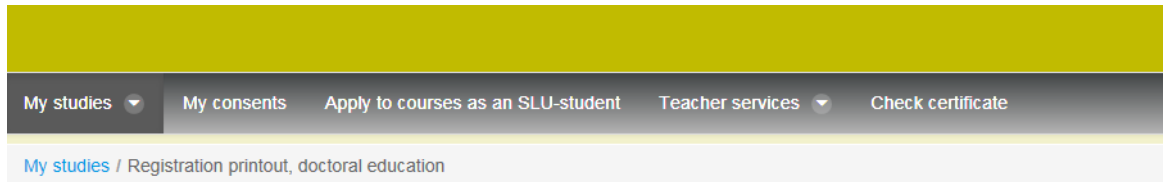
GS-VMAS have funds available to grant money for seminars and/or workshops. If you have a visiting research partner or an opponent present for a dissertation it may be a great opportunity to combine this with arranging a seminar or workshop.

Please contact us at gs-vmas@slu.se and we will let you know whether there are funds available for your idea.

Administration of your PhD studies – tips and tricks

Registration printouts

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All the best from the coordinators and administrators for GS-VMAS

Miia, Anne-Lie, Kjell and Susanna