

## Course literature The biology of the horse HV0180

More literature will also be made available during the course. All literature is available in Canvas, on the internet or as e-books freely accessed by SLU library. Canvas is the learning platform that will be used in the course.

### Behaviour

Brubaker, L. & Udell, M. A. R. 2016. Cognition and learning in horses (*Equus caballus*): What we know and why we should ask more. Behavioural Processes 126, 121-131. **Canvas**

Christensen, J. W., Zharkikh, T. & Chovaux, E. 2011. Object recognition and generalization during habituation in horses. Applied Animal Behaviour Science 129, 83-91. **Canvas**

Rørvang, M.V., Nielsen, B.L., McLean, A.N. 2020. Sensory Abilities of Horses and Their Importance for Equitation Science. Frontiers in Veterinary Science 7, 17 pp. **Canvas**

Sigurjónsdóttir, H. 2007. Equine learning behavior: The importance of evolutionary and ecological approach in research. Behavioural Processes 76, 40-42. **Canvas**

Starling, M., McLean, A. & McGreevy, P. 2016. The Contribution of Equitation Science to Minimising Horse-Related Risks to Humans. Animals 6, 15, 13 pp. **Canvas**

### Anatomy and physiology

Pictures from Atlas der topographischen Anatomie der Haustiere, P. Popesko 1998. Afys 2003. **Canvas**

Davies Z. (2017) Equine Science. 3 ed. Wiley-Blackwell ISBN: 9781118741184. **Available as E-book at SLU Library.**

### Nutrition and feeding

**Utfodringsrekommendationer för häst (2011), SLU.** Used for all feed ration calculations.

Available in Swedish, translation to English on canvas course page

[https://www.slu.se/globalassets/ew/org/inst/huv/publikationer/utfodringsrekommendationer-for-hast\\_2013\\_rapport\\_289.pdf](https://www.slu.se/globalassets/ew/org/inst/huv/publikationer/utfodringsrekommendationer-for-hast_2013_rapport_289.pdf)

Müller, C.E. 2018. Silage and haylage for horses. Grass and Forage Science 73, 815-827. **Canvas**

**EAAP 2012: Forages and grazing in horse nutrition. 2012. EAAP Publication no 132. Eds. Saastamoinen, Fradinho, Santos, Miraglia. Wageningen Academic Publishers.** Available as e-book on SLU Library webpage (use search words "Forages and grazing in horse nutrition", choose the hit where a full-text option is present, and download it (pdf). In this publication, the following chapters are used in the course:

- pages 197-208, Grazing and pasture management considerations from around the world (Smith et al.)
- pages 237-253, Impact of harvest, preservation and storage conditions on forage quality (Müller)
- pages 289-303, Forage feeding systems (Jansson et al.)

**Equine Applied and Clinical Nutrition (2013), Saunders Elsevier.** E-book, available on SLU library webpage. Use search words "Equine applied and clinical nutrition" and choose one of the options with a full-text,

download as pdf. In this publication, the following chapter is used in the course:

- **Chapter 17 Feedstuffs for horses, J. E. Lindberg, pages 319-331.**

This book covers a wide range of topics in equine nutrition, and although not all of them will be covered in the course, it may be wise to download the full book for future reference.

**NRC – Nutrient requirements of horses (2007), 6th revised edition, National Research Council.**

**Available for reading on-screen(one chapter at a time) but cannot be downloaded:**

<https://www.nap.edu/read/11653/chapter/1>

In this publication, the following chapter is used in the course:

-**Chapter 12. Unique aspects of equine nutrition, sid 235-267.**

### **Breeding and genetics**

Albertsdóttir, E. 2010. Integrated genetic evaluation of breeding field test traits, competition traits and test status in Icelandic horses. [Elektronisk] Diss. Hvanneyri: Agricultural University of Iceland. ISBN: 97899798810412. Available:

<https://skemman.is/bitstream/1946/10835/1/elsa%20alb.%20doktorsritgerd.pdf>

Andersson, L.S., Larhammar, M., Memic, F., Wootz, H., Schwochow, D., Rubin, C.-J., Patra, K., Arnason, T., Wellbring, L., Hjälml, G., Imstrand, F., Petersen, J.L., Mccue, M.E., Mickelson, J.R., Cothran, G., Ahituv, N., Roepstorff, L., Mikko, S., Vallstedt, A., Lindgren, G., Andersson, L. & Kullander, K. (2012). Mutations in *DMRT3* affect locomotion in horses and spinal circuit function in mice. *Nature* 488, 642–646. **Canvas**

Nikolić, D., Jönsson, L., Lindberg, L., Ducro, B. and Philipsson, J. 2009. Inherited disorders and their management in European Warmblood sport horse breeds. Annual meeting of the 60th Annual Meeting of the European Association for Animal Production, Barcelona, Spain, 24-27 August. **Canvas**

Thiruvankadan, A.K., Kandasamy, N. & Panneerselvam, S. 2009 Inheritance of racing performance of trotter horses: An overview. *Livestock Science* (124), 163-181. **Canvas**

Thorén Hellsten, E., Viklund, Å., Koenen, E.P.C., Ricard, A., Bruns, E. & Philipsson, J. 2006. Review of genetic parameters estimated at stallion and young horse performance tests and their correlations with later results in dressage and show-jumping competition. *Livestock Science* (103), 1-12. **Canvas**

Viklund, Å. 2010. Genetic evaluation of Swedish Warmblood horses. [Elektronisk] Diss. Uppsala: Sveriges Lantbruksuniversitet. ISBN: 978-91-576-7461-6. Available:

[http://pub.epsilon.slu.se/2336/1/viklund\\_asa\\_100831.pdf](http://pub.epsilon.slu.se/2336/1/viklund_asa_100831.pdf)

### **Reproduction**

Dalin, A-M & Malmgren, L. Compendium in Equine Reproduction. Department of Obstetrics and Gynaecology. *Swedish University of Agricultural Sciences*, pp 1-38, 69-71 och 131-138. **Canvas**

Davies Z. (2017) *Equine Science*. 3 ed. Wiley-Blackwell ISBN: 9781118741184. **Available as E-book at SLU Library. Chapter 12.**

### **Horse manure and the environment**

Weir et al., 2017. Characterizing ammonia emissions from horses fed different crude protein

concentrations. J Anim Sci 2017.95: 3598-3608. **Canvas**

Parvage et al., 2013. A survey of soil phosphorus (P) and nitrogen (N) in Swedish horse paddocks. Agriculture, Ecosystems and Environment 178, 1-9. **Canvas**

Airaksinen, S., Heiskanen, M. L. & Heinonen-Tanski, H. (2007). Contamination of surface run-off water and soil in two horse paddocks. Bioresource Technology, 98, 1762-6. **Canvas**

### **Parasitology and pasture management**

Corbett et al. 2014. The effectiveness of faecal removal methods of pasture management to control the cyathostomin burden of donkeys. Parasites & Vectors 2014, 7:48 **Canvas**

Sellen, D.C. & Long, M.T. 2014. Equine Infectious Diseases. 2<sup>nd</sup> edition. Saunders. ISBN: 978-1-4557-0891-8. **Available as E-book at SLU Library. Chapter 57 & 58.**