**Equine Biology Health and Welfare (APBI 316) Winter Term 2**

*Tues/Thurs 4:00 - 5:30pm \*all readings are linked on Canvas*

**Schedule is subject to change**

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|  | **Date (2023)** | **Topic** | **Reading/Activity** |
| Week 1 | Tuesday, January 10 | Introduction - Horses in Society: History | Film by National Geographic |
| Thursday, January 12 | Natural History | Fureix, M. et al. 2012 (up to section 2.5, p 220)  **Assign:** *Horses in society participation*   * ***Quiz 1*** |
| Week 2 | Tuesday, January 17 | Horses in Society: History & Current |  |
| Thursday, January 19  (Last day to withdraw without a W is Jan. 20) | Behaviour – Identifying normal and abnormal behaviour with ethogram. | McDonnell, 2003  Sarrafchi 2013 |
| Week 3 | Tuesday, January 24 | Behaviour – observing and recording behavior in class | Observing video in class. Be familiar with types of behaviour |
| Thursday, January 26 | Behaviour | **Assign:** *Essay 1*   * ***Quiz 2*** |
| Week 4 | Tuesday, January 31 | Anatomy |  |
| Thursday, February 2 | Anatomy (finish stations) | * ***Quiz 3*** |
| Week 5 | Tuesday, February 7 | Health – GIT (Anatomy and Physiology) | Hintz & Cymabluk 1994 |
| \*Thursday, February 9  **ZOOM** | Health – Nutrition and Diet Formulation | Guest – Shelagh Niblock (virtual)   * *Blog Posts* DUE * ***Quiz 4*** |
| Week 6 | Tuesday, February 14 | Health – GIT continued/Colic |  |
| \*Thursday, February 16 | Health - Colic | **Assign:** *Blog*   * ***Essay 1*** DUE today at 11:59! * ***Quiz 5*** |
| **Week 7** | **Midterm Break: February 20 - 24** | **NO CLASSES** |  |
| Week 8 | Tuesday, February 28 | Laminitis |  |
| \*Thursday, March 2 | Laminitis continued | * *Blog responses* DUE * ***Quiz 6*** |
| Week 9 | Tuesday, March 7 | Health – Reproductive Biology | Guest – Dr. Lauren MacLeod |
| Thursday, March 9 | Welfare – Husbandry and Management | Fraser, 1997  Christensen, 2011  Henry 2012  Søndergaard 2011  Thorne 2005  **Assign:** *Pain participation*   * ***Quiz 7*** |
| Week 10 | Tuesday, March 14 | Health-Pain Assessment and Recognition | Dalla Costa  [www.youtube.com/watch?v=hrZgtrqbMVI](http://www.youtube.com/watch?v=hrZgtrqbMVI) |
| \*Thursday, March 16 | Welfare – Equitation Science-learning | * *Pain participation* DUE * ***Quiz 8*** |
| Week 11 | Tuesday, March 21  **ZOOM** | Solving Behaviour – equine behaviour consultants | Guest – Lauren Fraser (virtual) |
| \*Thursday, March 23 | Welfare – Equitation Science | * Infographics DUE |
| Week 12 | Tuesday, March 28 | Welfare – Management of Aggression or RACING | Fureix 2012  Briefer Freymond 2013  Jorgensen 2009 |
| Thursday, March 30 | Equine Veterinary Medicine | Guest – Dr. Nick Kleider (Kleider Veterinary Services)   * ***Quiz 9*** |
| Week 13 | Tuesday, April 4 | Shipping and Slaughter |  |
| Thursday, April 6 | Welfare – Live Shipping and The Law | Guest – Rebeka Breder   * ***Quiz 10*** |
| Week 14 | Tuesday, April 11 | Welfare judging | **Assign:** Take-home Final |
| Tuesday, April 13 | Wrap-up, student feedback and course evaluation | **Last class!** |
|  | **\*TUESDAY, APRIL 18th\*** |  | **FINAL PAPER DUE** |
|  |  | Have a great summer! |  |

**References for Reading Material**

Christensen, J. W., Søndergaarda, E., Thodberga, K. & Halekohb, U. 2011. Effects of repeated regrouping on horse behaviour and injuries. Applied Animal Behaviour Science 133, 199– 206 .

Briefer Freymond, S., Rudolf Von Niederhäusern, E.F. and Bachmann, I. 2013. Pattern of Social Interactions after Group Integration: A Possibility to Keep Stallions in Group. PlosOne 8 (1).

England G.C.W. 2005. Chapter 2 - Endocrinology of the Oestrous Cycle and Puberty In Fertility and Obstetrics in the Horse. 3rd Edition.

Fureix, M. Bourjadec, S. Henry, C. Sankey, M. Hausbergera. 2012**.** Exploring aggression regulation in managed groups of horses *Equus caballus*.C. Applied Animal Behaviour Science 138: 216– 228.

Fureix C., Menguy H., Hausberger, M. Partners with Bad Temper: Reject or Cure? A Study of Chronic Pain and Aggression in Horses

Henry, S. et al. 2012. Adults may be used to alleviate weaning stress in domestic foals (Equus caballus). Physiology & Behavior 106, 428–438.

Hintz H.F. and N. F. Cymbaluk 1994. Nutrition of the horse. Annual Review of Nutrition. 14:243-267

Jørgensen G., Borsheim L., Mejdell C.M., Søndergaard E., Bøe K. Grouping horses according to gender—Effects on aggression, spacing and injuries.

McDonnell, S. 2003. The Equid Ethogram: A Practical Field Guide to Horse Behavior. Eclipse Press 300 p.

NFACC 2013. National Farm Animal Care Council Code of Practice for the Care and Handling of Equines.

Sarrafchi A. and H.J. Blokhuis 2013. Equine stereotypic behaviors: Causation, occurrence, and prevention. Journal of Veterinary Behavior 8: 386-394.

Søndergaard, E., M.B. Jensen, and C.J. Nicol. 2011. Motivation for social contact in horses measured by operant conditioning. Applied Animal Behaviour Science 132: 131–137.

Thorne, J.B., D. Goodwin, M.J. Kennedy, H.P.B. Davidson, and P. Harris A. 2005. Foraging enrichment for individually housed horses: Practicality and effects on behavior. Applied Animal Behaviour Science 94: 149–164.